

RXD-M31/LS-M31(S)

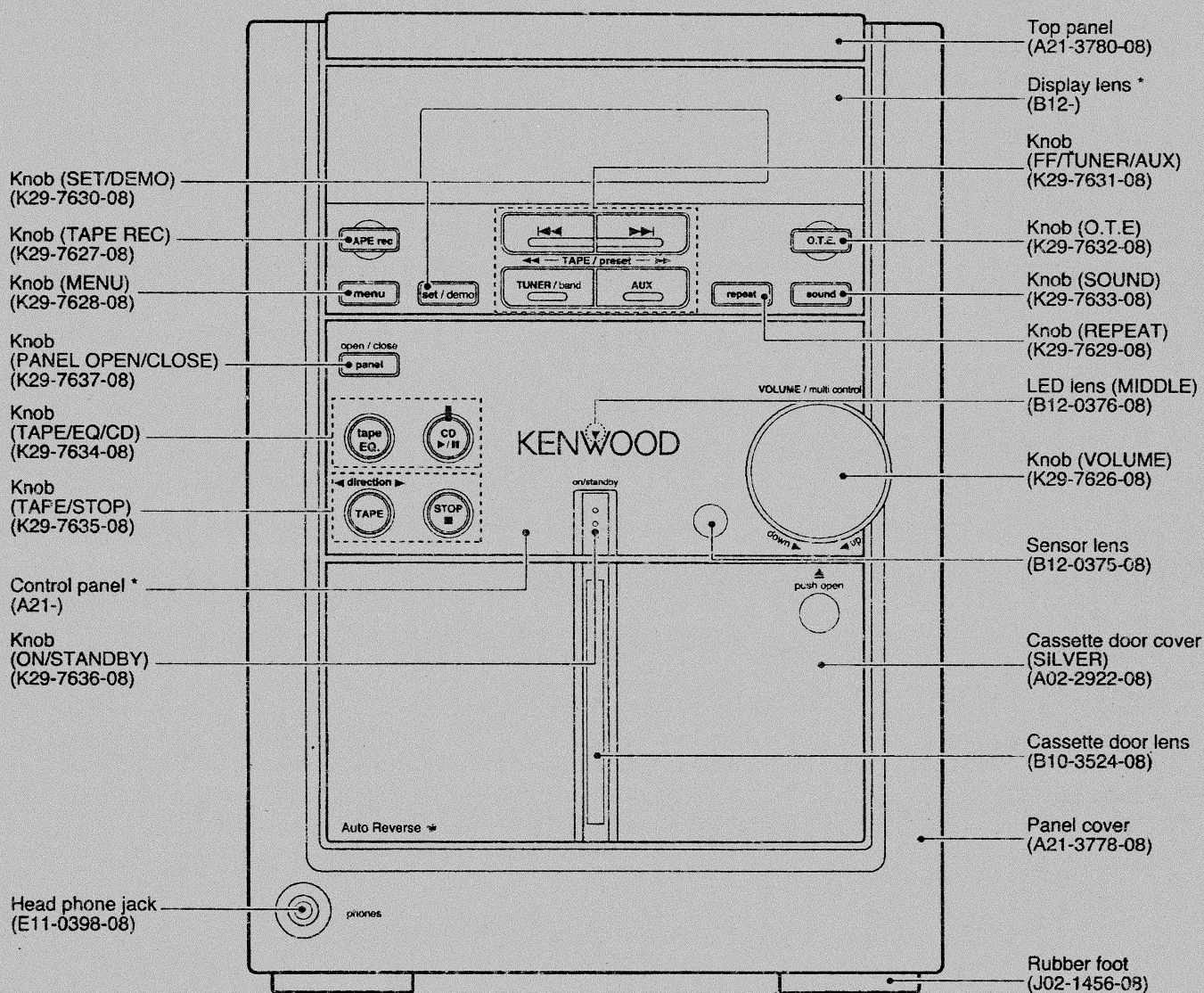
SERVICE MANUAL

(HM-331)**

KENWOOD

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**Refer to page 2 if you want to know system configuration.



* Refer to parts list on page 29.

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD Corp. certifies this equipment conforms to DHHC Regulations 7.6, 21 CFR 1040.10, Chapter 1, Subchapter J.

DANGER - Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM

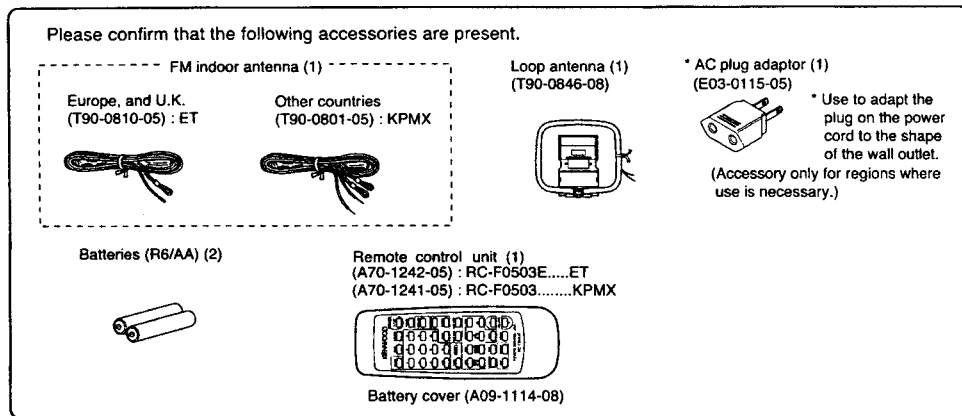
CONTENTS / ACCESSORIES / CAUTIONS

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Accessories

Please confirm that the following accessories are present.



System configuration

SYSTEM	MAIN UNIT	SPEAKER
HM-331	RXD-M31	※LS-M31(S)

※ Refer number for LS-M31(S), refer to parts list on page 36.

Cautions

Operation to reset

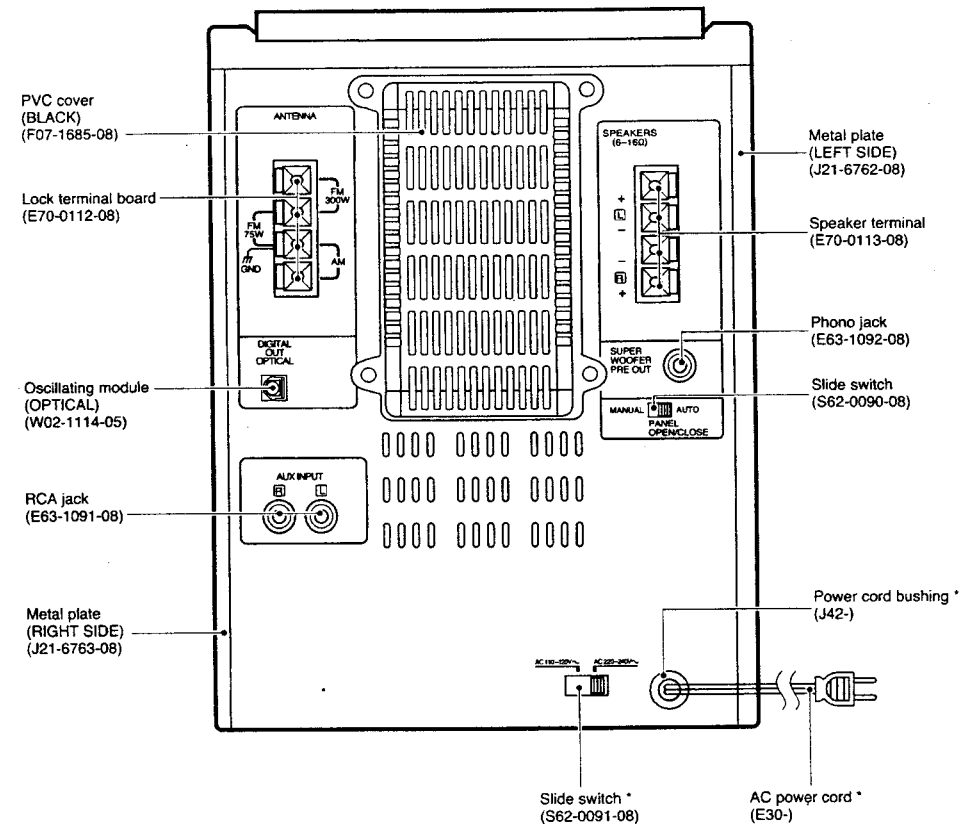
The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while unit is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

- Please note that resetting the microcomputer clears the contents stored in and it returns to condition when it left the factory.

Unplug the power cord from the power outlet then, while holding the "set/demo" key depressed, plug the power cord again.

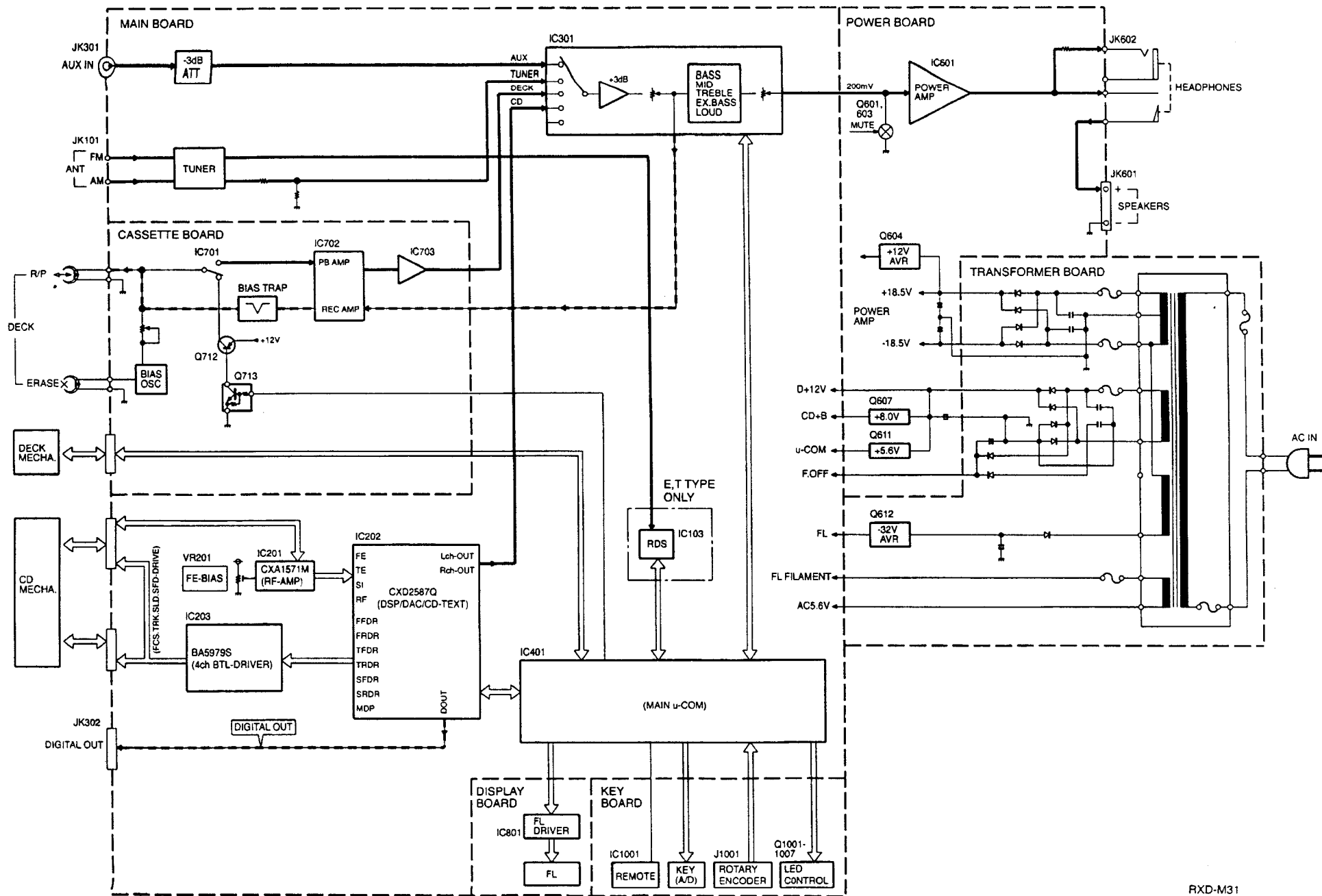


EXTERNAL VIEW



* Refer to parts list on page 29.

BLOCK DIAGRAM



RXD-M31

1. Initialization

1-1 Setting of initial conditions

While pressing the [SET] key, plug the AC power cord into an AC power outlet.

1-2 Initializing operation

- A microcomputer is initialized for start when the AC power is turned on while pressing the [SET] key. At that time, CD mechanism, and CASSETTE mechanism are also initialized.
- During the initial operation, the display shows "INITIALIZE" and normal indication, after that it goes off immediately.

1-3 Initial items and back up data

	ITEMS	
AMP	※POWER	OFF
	※VOLUME	15
	※BALANCE	CENTER
	LOUDNESS	OFF
	EX. BASS	ON
	※INPUT SEL	TUNER
	※AUX INPUT	0
	※BASS	0
	※TREBLE	0
	※BAND	FM
TUNER	※LAST f	LIMIT
	※LAST Pch	—
	※AUTO/MONO	AUTO
	※Pch	TEST f
CLOCK TIMER	CLOCK	AM 12:00
	※PROG ON	AM 12:00
	※PROG OFF	AM 12:00
	※PRO MODE	PLAY
	※SOURCE	TUNER
	※Pch	1
	※EXE	OFF
	※OTT	OFF
CD	SLEEP	OFF
	PLAY MODE	TRACK
	REPEAT	OFF
	RANDOM	OFF
DECK	PLAY MODE	STOP
	※DIRECTION	FORWARD
	※RVS MODE	▷
	OPERATION MODE	STOP

※back up data

1-4 Mechanism Initialization

1-4-1 CD mechanism

- If a mechanism error occurs, "C" is indicated on the display.

1-4-2 CASSETTE mechanism

- If a mechanism error occurs, "X" is indicated on the display.

2. TUNER preset frequency

ch	Destination		
	K2	E2	E1/H
1	FM 97.50MHz	FM 97.50MHz	FM 97.50MHz
2	FM 108.00MHz	FM 108.00MHz	FM 108.00MHz
3	AM 630kHz	AM 630kHz	AM 630kHz
4	AM 1000kHz	AM 999kHz	AM 999kHz
5	AM 1440kHz	AM 1440kHz	AM 1440kHz
6	AM 1610kHz	AM 1602kHz	AM 1602kHz
7	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
8	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
9	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
10	FM 89.10MHz	FM 89.10MHz	FM 89.10MHz
11	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
12	FM 90.00MHz	FM 90.00MHz	FM 90.00MHz
13	FM 106.00MHz	FM 106.00MHz	FM 106.00MHz
14	AM 530kHz	AM 531kHz	AM 531kHz
15	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
16	FM 98.00MHz	FM 98.00MHz	FM 98.00MHz
17	FM 98.50MHz	FM 98.50MHz	FM 98.50MHz
18	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
19	AM 990kHz	AM 990kHz	AM 990kHz
20	FM 97.40MHz	FM 97.40MHz	FM 97.40MHz
21	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
22	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
23	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
24	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
25	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
26	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
27	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
28	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
29	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
30	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
31	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
32	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
33	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
34	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
35	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
36	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
37	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
38	FM 87.50MHz	FM 87.50MHz	FML 74.00MHz
39	FM 87.50MHz	FM 87.50MHz	FML 65.00MHz
40	FM 87.50MHz	FM 87.50MHz	FML 69.00MHz

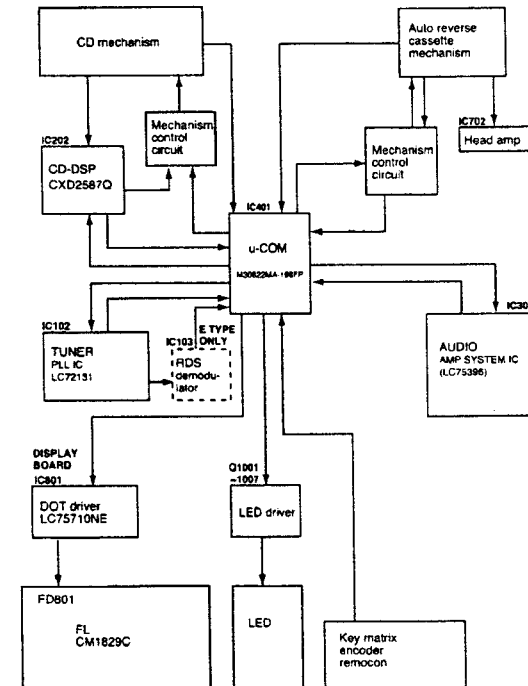
3. Destination list of TUNER (DSW4=50pin, DSW3=49pin, DSW2=48pin)

Destination	U-COM Destination	Discrimination			Band	Receiving frequency range	Channel space	IF	RF
		DSW4	DSW3	DSW2					
K, P	K1	0	0	0	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz
					AM	530kHz~1700kHz	10kHz	+450kHz	10kHz
M, X	K2	0	0	1	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz
					AM	530kHz~1610kHz	10kHz	+450kHz	10kHz
J	J	0	1	0	FM	76.0MHz~108.0MHz	100kHz	+10.7MHz	25kHz
					AM	531kHz~1623kHz	9kHz	+450kHz	9kHz
E, T	E1 RDS	1	1	0	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz
					AM	531kHz~1602kHz	9kHz	+450kHz	9kHz

0=(input low) 1=(input high)

4. Main microprocessor M30622MA-198FP (MAIN BOARD IC401)

4-1 Microprocessor periphery block diagram



4-2 Key matrix

Vref = 5V

VOLTAGE [V]	0.357<	1.061<	1.726<	2.437<	3.156<	3.827<	4.586<
A/D	≤1.061	≤1.726	≤2.437	≤3.156	≤3.827	≤4.586	EAh<
(hex)	≤36h	≤58h	≤7Ch	≤A1h	≤C3h	≤EAh	
KEY1 89PIN	SOUND	REPEAT	MENU	SET	POWER	O.T.E	KEY OFF
KEY2 90PIN	STOP ■	S. DOWN ◀◀	CD ▶/■	(TUNER)	(AUX)	-	KEY OFF
KEY3 91PIN	S. UP ▶▶	(TAPE. EQ)	-	-	TAPE	TAPE REC	KEY OFF

4-3 Pin description of main microprocessor: M30622MA-198FP (MAIN BOARD IC401)

Pin No.	Name	I/O	Description
1	CE	O	SYSTEM IC(LC75396)/PLL IC(LC72131) CE
2	PLL DO	I	PLL DATA INPUT
3	SD	I	TUNER SD DETECT INPUT H : NO TUNED L : TUNED
4	STEREO	I	TUNER STEREO DETECT INPUT H : MONO L : STEREO
5	EMPHASIS	-	NO USED
6	RDS DATA	I	RDS DATA INPUT E.T TYPE ONLY
7	CE	I	AC OFF DETECT INPUT H : AC ON L : AC OFF
8	BYTE	I	CONNECT GND
9	CNVSS	I	CONNECT GND
10	XCIN	I	TIMMER CLOCK(32.768kHz)
11	XCOUT	O	TIMMER CLOCK(32.768kHz)
12	RESET	I	U-COM RESET H : NORMAL L : RESET
13	XOUT	O	MAIN CLOCK
14	VSS	-	GND
15	XIN	I	MAIN CLOCK
16	VCC	-	5V POWER SUPPLY
17	NMI	I	CONNECT 5V
18	REMOCON	I	REMOCON INPUT INTERRUPT BY H → L
19	RDX CLK	I	RDS CLK INPUT INTERRUPT BY L → H
20	SCOR	I	SUB CODE SYNCHRO SIGNAL INTERRUPT BY H → L (CXD2587Q)
21	CD DC OFF	O	CD DSP POWER SUPPLY CONTROL H : OFF L : ON
22	SCLK	O	CD SENSE DATD READ OUT CLOCK (CXD2587Q)
23	SENSE	I	CD SENSE INPUT (CXD2587Q)
24	CD CLK	O	CD DSP LOCK (CXD2587Q)
25	XLAT	O	CD DSP LATCH OUTPUT (CXD2587Q) L : LATCH
26	CD DATA	O	CD DSP DATA OUTPUT (CXD2587Q)
27	CD RST	O	CD DSP RESET OUTPUT (CXD2587Q) H : NORMAL L : RESET
28	SQCK	O	CD SUB CODE CLOCK (CXD2587Q)
29	SQSO	I	CD SUB CODE INPUT (CXD2587Q)
30	NC	O	NO USED
31	FL DATA	O	FL DRIVER DATA OUTPUT (LC75710NE)
32	NC	O	NO USED
33	FL CLK	O	FL DRIVER CLOCK (LC75710NE)
34	CDZD	-	NO USED
35	UA RT1	-	NO USED
36	UA RT2	-	NO USED
37	LCD	O	CD LASER OUTPUT CONTROL H : OFF L : ON
38	NC	O	NO USED
39	MD RST	-	NO USED
40	CD MON	O	CD MON OUTPUT H : ON L : OFF
41	NC	O	NO USED
42	DM SHORT	O	SAME CD POWER SIGNAL H : OFF L : ON
43	DOOR SW	I	CD DOOR SWITCH INPUT H : OPEN L : CLOSE
44,45	NC	O	NO USED
46	MODEL	I	DESTINATION DISTINCTION (MODEL) H : RXD-M31
47	DOLBY	I	NO USED
48-50	CODE2-4	I	DESTINATION DISTINCTION (TUNER)
51	FL RST	O	FL DRIVER RESET OUTPUT (LC75710NE) H : NORMAL L : RESET

Pin No.	Name	I/O	Description
52	PWX33	-	NO USED
53	ENC1	I	ROTARY ENCODER1 (VOL. INPUT A)
54	ENC2	I	ROTARY ENCODER2 (VOL. INPUT B)
55	LED5	-	NO USED
56	LED4	O	LED OUTPUT D1032 SELECTOR CD H : ON L : OFF
57	LED3	O	LED OUTPUT D1031(RED) STANDBY H : OFF L : ON
58	LED2	O	LED OUTPUT D1031(GRN) STANDBY H : OFF L : ON
59	LED1	O	LED OUTPUT D1035 TAPE DIRECTION(FWD) H : ON L : OFF
60	LED0	O	LED OUTPUT D1034 TAPE DIRECTION(RVS) H : ON L : OFF
61	FL CE	O	FL DRIVER CE OUTPUT (LC75710NE)
62	VCC	-	POWER SUPPLY
63	NC	O	NO USED
64	VSS	-	GND
65	A/B-2	O	DECK ACTIVITY CHOICE MODE (HA12219NT) 65 H H REC
66	A/B-1	O	DECK ACTIVITY CHOICE MODE (HA12219NT) 66 L H REC PAUSE, ARM
			67 L L PLAY
67	CPM	O	DECK MOTOR CONTROL H : ON L : OFF
68	SOL	O	DECK SOLENOID CONTROL H : ON L : OFF
69	REC F SW	I	DECK FEW REC SW INPUT H : OFF L : ON
70	REC R SW	I	DECK RVS REC SW INPUT H : OFF L : ON
71	PACK SW	I	DECK PACK SW INPUT H : OFF L : ON
72	Cr02 SW	-	NO USED
73	PLAY SW	I	DECK PLAY SW INPUT H : OFF L : ON
74	B1/2	-	NO USED
75	A120/70	-	NO USED
76	BIAS	O	DECK BIAS CONTROL H : ON L : OFF
77	NOR	-	NO USED
78	REC/PLAY	-	NO USED
79	NR ON	-	NO USED
80	S.CL	O	CLOCK OUTPUT TO SYSTEM IC/PLL IC
81	PRT MD	-	NO USED
82	FAN H/L	-	NO USED
83	FAN ON/OFF	-	NO USED
84	A MUTE	O	AUDIO MUTE CONTROL H : OFF L : ON
85	CD A MUTE	O	CD ANALOG MUTE CONTROL H : ON L : OFF
86	TU. MT	O	TUNER MUTE CONTROL H : ON L : OFF
87	PWR07	O	POWER RELAY CONTROL H : ON L : OFF
88	PRT07	I	PROTECTION DETECT H : PROTECTION ON
89-91	KEY1-KEY3	I	KEY A/D INPUT1-3
92,93	A/DP1,A/DP2	I	NO USED
94	TA. MT	O	DECK MECHA MUTE OUTPUT H : ON L : OFF
95	RDS SLEVEL	I	RDS S-LEVEL INPUT (E.T type)
96	AVSS	-	GND
97	PHOTO	I	DECK ROTARY DETECT INPUT
98	VREF	-	5V REFERENCE VOLTAGE (NO BACKUP)
99	AVCC	-	5V POWER SUPPLY (BACKUP)
100	S. DT	O	DATA OUTPUT TO SYSTEM IC/PLL IC

5. Test mode

5-1 Test mode of the receiver

(1) Setting of the test mode.

While pressing the [Band] key, plug the AC power cord into an AC power outlet.

(2) Canceling of the test mode.

Unplug an AC power cord.

(3) Condition in test mode.

POWER ON

SELECTOR TUNER [BAND]

FL, LED All the fluorescent display indicate and LEDs light. (The all illuminated state is cleared by pressing any main unit key or remocon key.

EX. BASS OFF

(4) Basic operation in test mode.

① The muting during mode selection is not controlled in the test mode.

② The test mode is cancelled when the AC power is turned OFF.

(5) The operation of the keys in the test mode.

SELECTION OPERATION KEY	TUNER	AUX
MENU	NORMAL ACTIVITY	DISPLAY → DISPLAY → DISPLAY VOLUME INPUT BALANCE (VOLUME15) (INPUT 0) (CENTER)
◀◀	P.CALL : DOWN	VOLUME 1 INPUT-6(dB)
■	P.CALL : 10 STEP CHANGEOVER 10 → 20 → 30 → 40 → 01	VOLUME 40 INPUT 0 (dB)
▶▶	P.CALL : UP	VOLUME 80 INPUT+3(dB)
REPEAT	EQU.MAX → EQU.MINI → EQU.FLAT	
SOUND (E.T only)	S-LEVEL DISPLAY ATT OFF ** ↓ ATT ON ** ↓ TUNER ATT OFF (NORMAL DISPLAY) ** : S-LEVEL A/D VALUE(HEX)	NORMAL ACTIVITY

5-2 Test mode of DECK section

(1) Setting

While pressing the TAPE key(DECK), plug the AC power cord into an AC power outlet.

(2) Resetting

Disconnect the AC power cord from an AC power outlet or press the [ON/STANDBY] key.

(3) Operation in TEST mode

(a) Initial condition

Item	Condition
Power	ON
Selector	TAPE
Main VOL	0dB (VOL. 80)
Input level(AUX)	-6dB(INPUT 0)
EX. bass	OFF
FL, LED, LCD	All the FLs, LEDs, and LCDs are turned on

(b) 4-sec REC

• If the REC key is pushed, the system record for 4sec. Then, it rewinds to the REC starting position and plays back automatically.

• If the REC key is pushed during the 4-sec REC operation, the system records further for 4-sec, then returns to the starting position of the first 4-sec REC operation and plays back.

(c) Mechanism half switches indication

The mechanism half switches status are indicated "I" or "TAPE" on the display as shown below.

DOT (DISPLAY)	1st figure	2nd figure	3rd figure	4th figure
MECHA. HALF SWITCH	FWD REC INHIBIT DETECTION SW	RVS REC INHIBIT DETECTION SW	CRO2(TYPE II) DETECTION SW	CASSETTE HALF DETECTION SW
NG	/	/	/	/
OK	T	A	P	E

5-3 Test mode of CD player

5-3-1 Main unit

(1) Setting of the test mode

While pressing the [CD PLAY] key, plug the AC power cord into an AC outlet.

(2) Canceling of the test mode.

Unplug the AC power cord from AC power outlet.

(3) Operation

KEY	DISPLAY	OPERATION															
[CD PLAY] +AC	CD 5 01	POWER ON, SEL CD Mecha. initialization															
STOP	CD 5 01	STOP															
PLAY/PAUSE PAUSE ↓ ↑ PLAY (Cyclically changed)	CD 5 05 PLAY MARK ON ▶ CD 5 03 PAUSE MARK ON II	05 MODE 03 MODE (TRACKING SERVO OFF)															
SKIP DOWN	CD 5	Indication : Adjustment value/Mean value (stop mode only)/HEX <table> <tr> <td>DOT section</td><td>TWO section</td><td>SEC. section</td></tr> <tr> <td>TB/FB</td><td>TB value</td><td>FB value</td></tr> <tr> <td>TG/FG</td><td>TG value</td><td>FG value</td></tr> <tr> <td>FE/RE</td><td>FE value</td><td>RE value</td></tr> <tr> <td>TE/VC</td><td>TE value</td><td>VC value</td></tr> </table>	DOT section	TWO section	SEC. section	TB/FB	TB value	FB value	TG/FG	TG value	FG value	FE/RE	FE value	RE value	TE/VC	TE value	VC value
DOT section	TWO section	SEC. section															
TB/FB	TB value	FB value															
TG/FG	TG value	FG value															
FE/RE	FE value	RE value															
TE/VC	TE value	VC value															
SKIP UP	CD 5 06	Read TOC → play															

Adjustment of tuner

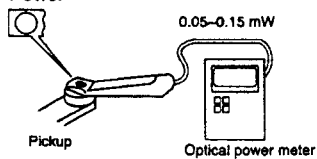
No.	ITEM	INPUT SETTING	OUTPUT SETTING	TUNER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
1	TUNED LEVEL	(A) 98MHz, 31.2dBf (ANT INPUT) 1kHz, ± 40 kHz DEV	-	MONO 98.0MHz	VR101	Adjust VR1 and stop at the point where ED1 (TUNED) goes ON.	

Adjustment of CD player

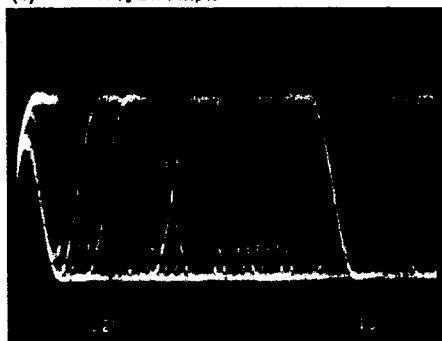
No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
TEST MODE : While pressing the [CD PLAY] key, plug the AC power cord into the AC outlet.							
1	LASER POWER	-	Set the sensor section of the optical power meter on the pickup lens.	Press the "PLAY" key to check that the display is "03".	-	On the power from 0.05 to 0.15mw. when the diffraction grating is correctly aligned with the RF level of 0.8Vp-p or more	(a)
2	FOCUS ERROR BIAS	Test disc Type 4	Connect an oscilloscope as follows. (+)side: RF(IC201,17pin) GND: VREF(test pin)	Press the "PLAY" key. Confirm that the display is "05".	VR201	Optimum eye pattern	(b)

Note:
Type 4disc :SONY YEDS-18 Test Disc or equivalent.
LPF : Around 47k Ω + 390pF or so.

(a) Laser Power



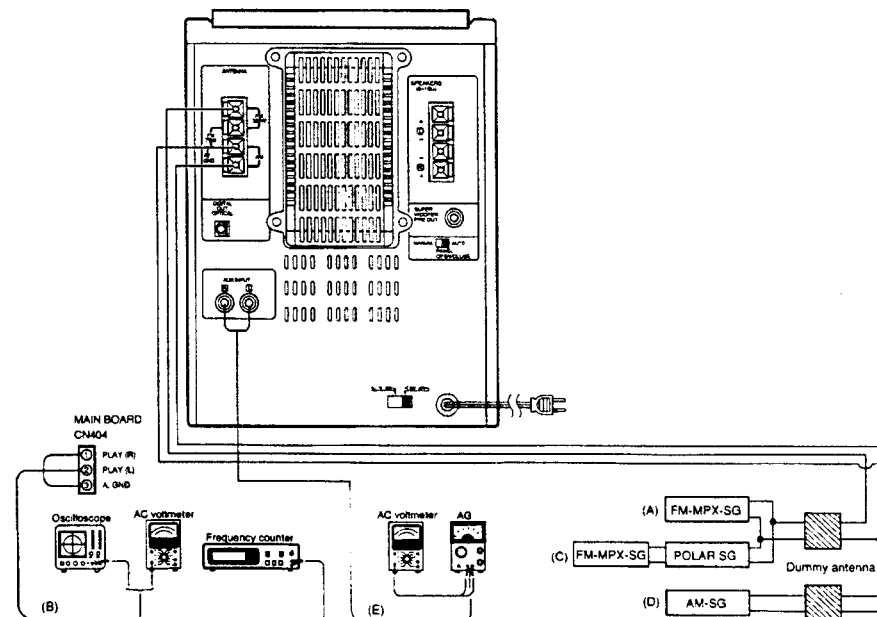
(b) RF signal : AC coupled



- RF signal in test mode (PLAY).
- Perform the tangential and focusing offset are focused into one point on the display. The crossing points above and below the center shall also be looked clearly.

Adjustment of cassette deck

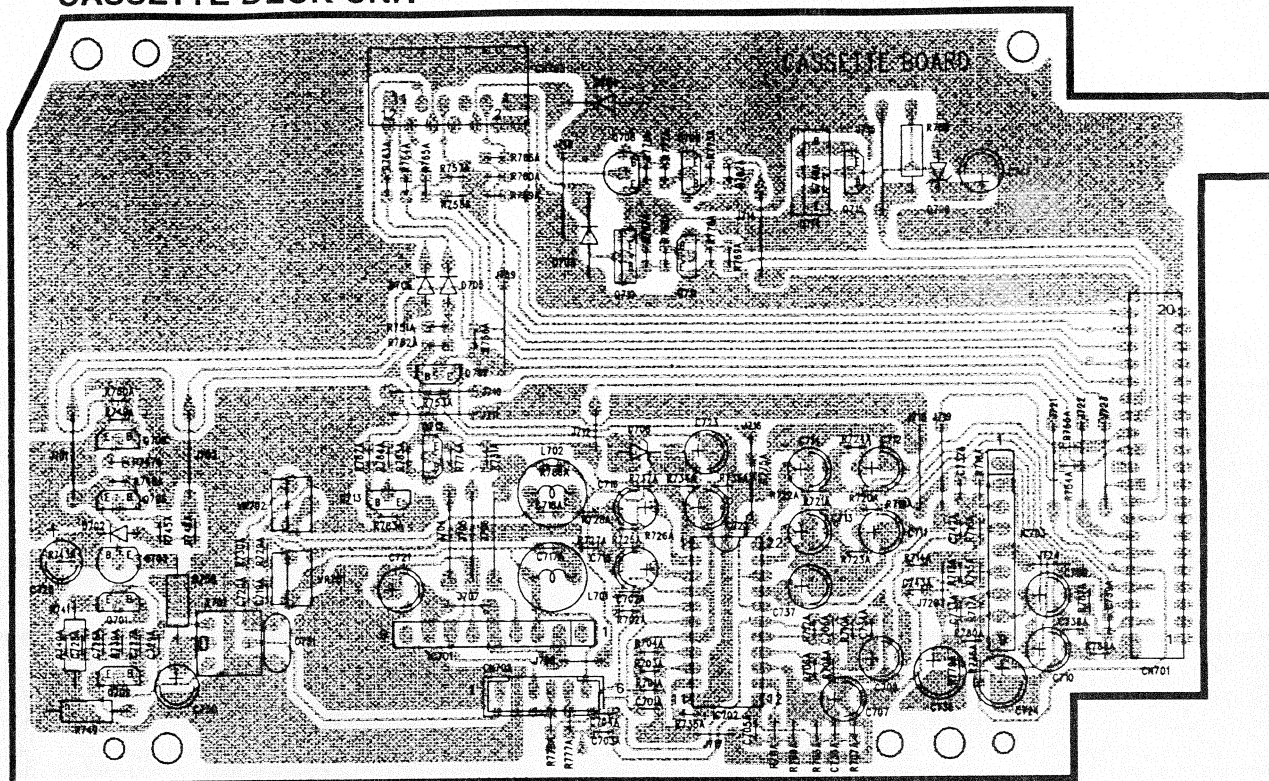
NO.	ITEM	INPUT SETTING	OUTPUT SETTING	CASSETTE TAPE DECK SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified, set the respective switches as follows: TAPE : NORMAL DOLBY : OFF I Cassette mechanism unit (Adjustment of the REC / PLAY head)							
(1)	Demagnetization and cleaning	-	-	Power : OFF Demagnetization, cleaning, PLAY	Recording head, erase head, capstan pinch roller	Demagnetize the REC / PLAY head with the head eraser. Clean the REC / PLAY head, erase head, capstan and pinch roller using a cotton swab slightly damped with alcohol.	
(2)	Azimuth of the REC / PLAY head	SCC-1727 TCC-153 MTT-114 10kHz, -10dB	(B)	PLAY	 RVS FWD	Adjust the output to maximum and adjust the azimuth adjustment screw for the Lissajous waveform pattern of the oscilloscope to become close to a 45° straight line.	
II PC board adjustment.							
(1)	BIAS CURRENT	(E) Set the AUX input level to +3dB. Adjust the AG for the output of the deck to become -20dB (400Hz/12.5kHz)	(B)	REC PLAY	VR701(L) VR702(R)	Record 400Hz and 12.5kHz alternately, and adjust the bias current adjustment potentiometer for the playback levels to become the same.	



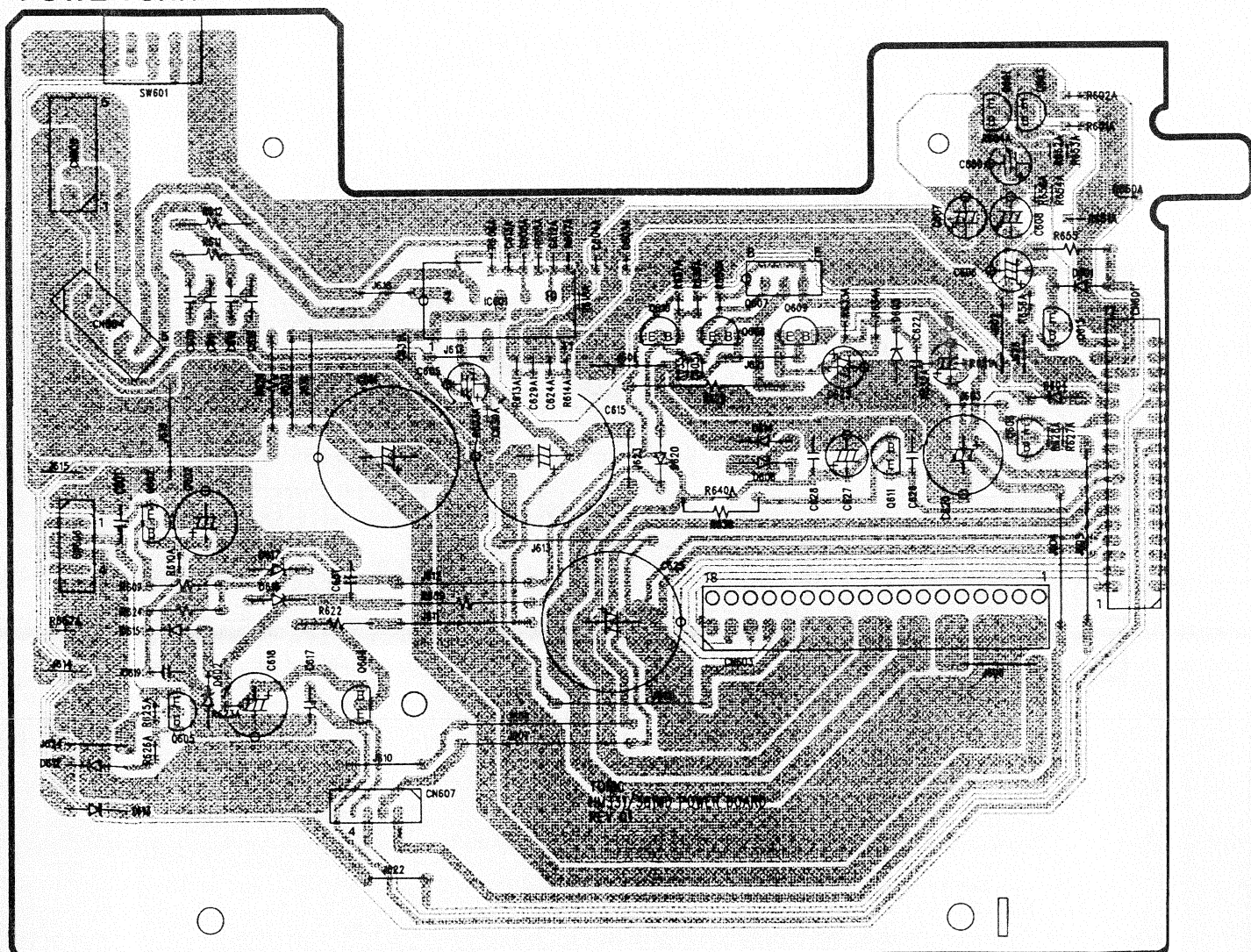
1
2
3
4

F G H I J

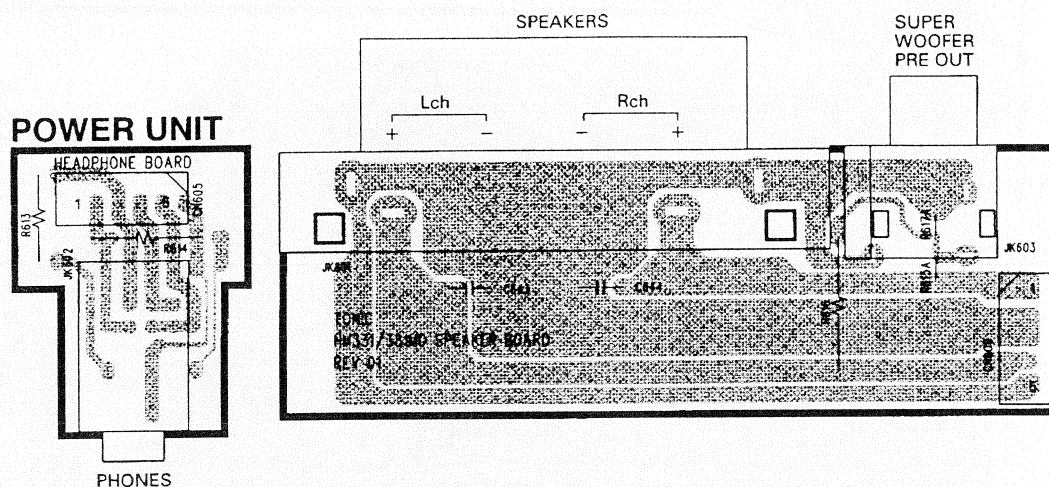
CASSETTE DECK UNIT



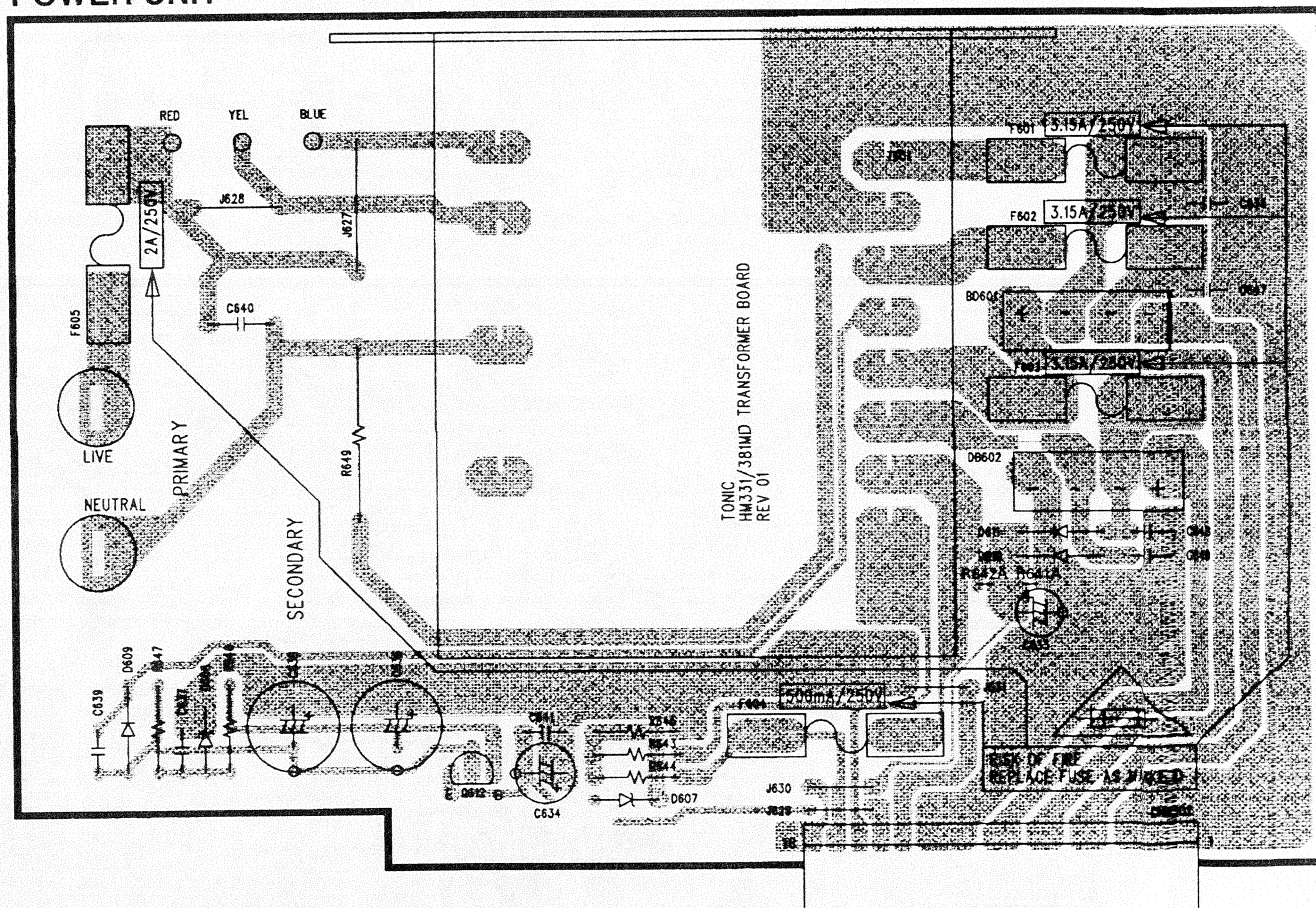
POWER UNIT



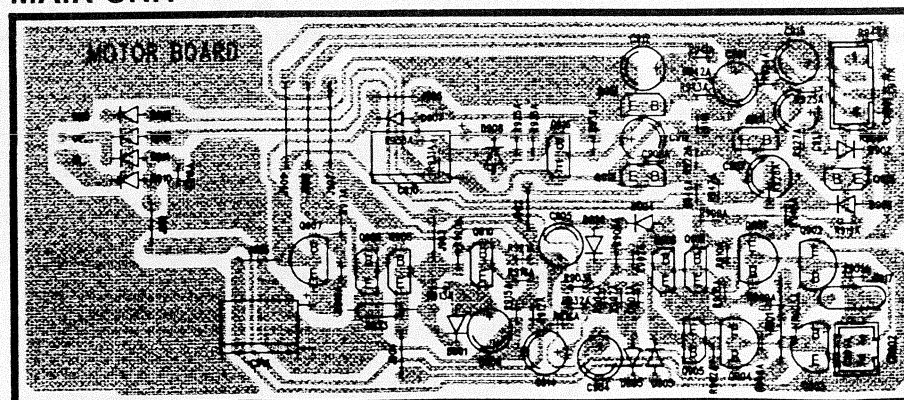
Age	Percentage
1	15
2	15
3	15
4	15
5	15
6	15
7	15



POWER UNIT



MAIN UNIT



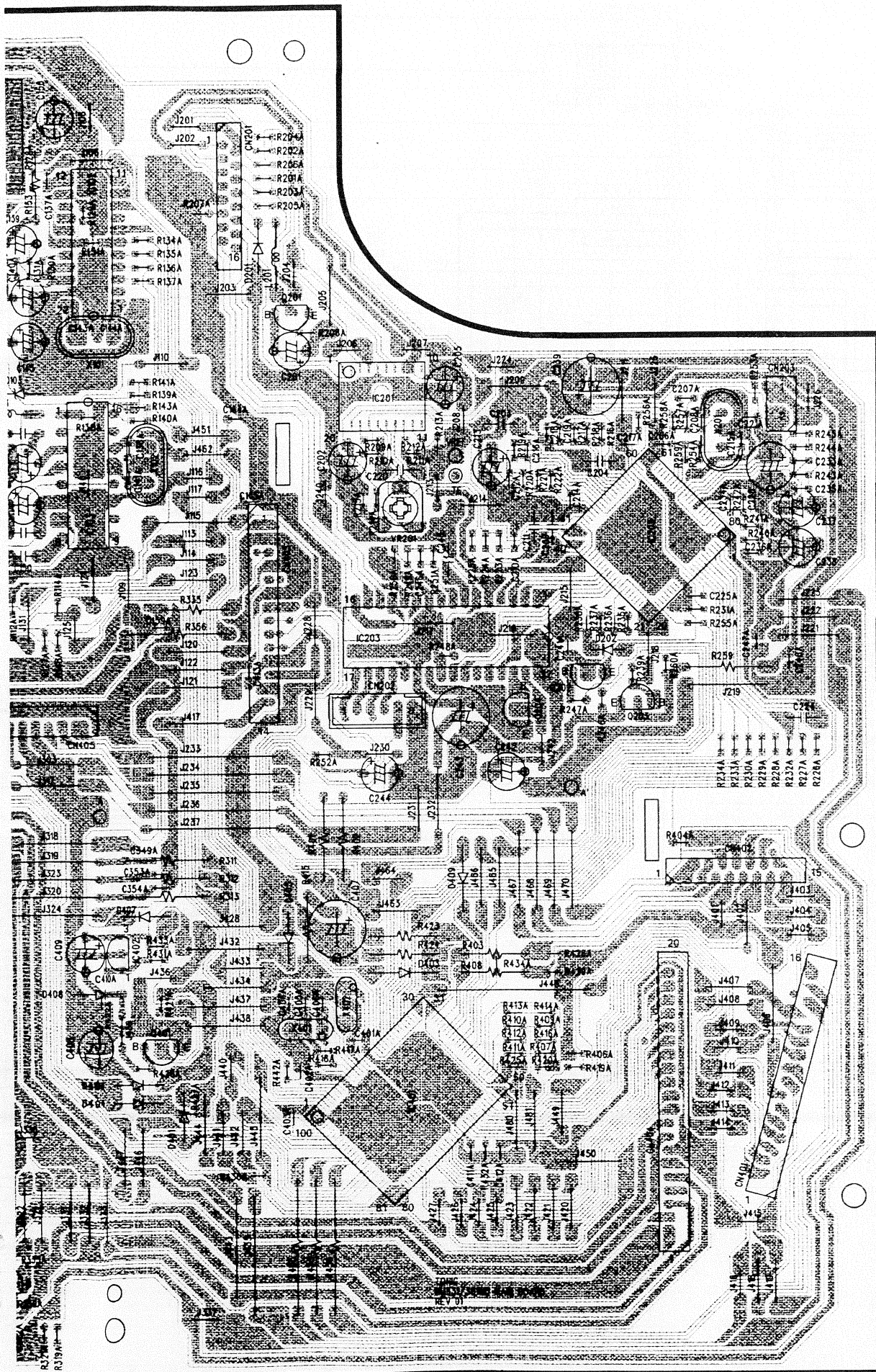
Refer to the schematic diagram for the value of resistors and capacitors.

MAIN UNIT

ANTENNA

JK1

AUX
INPUT



A

B

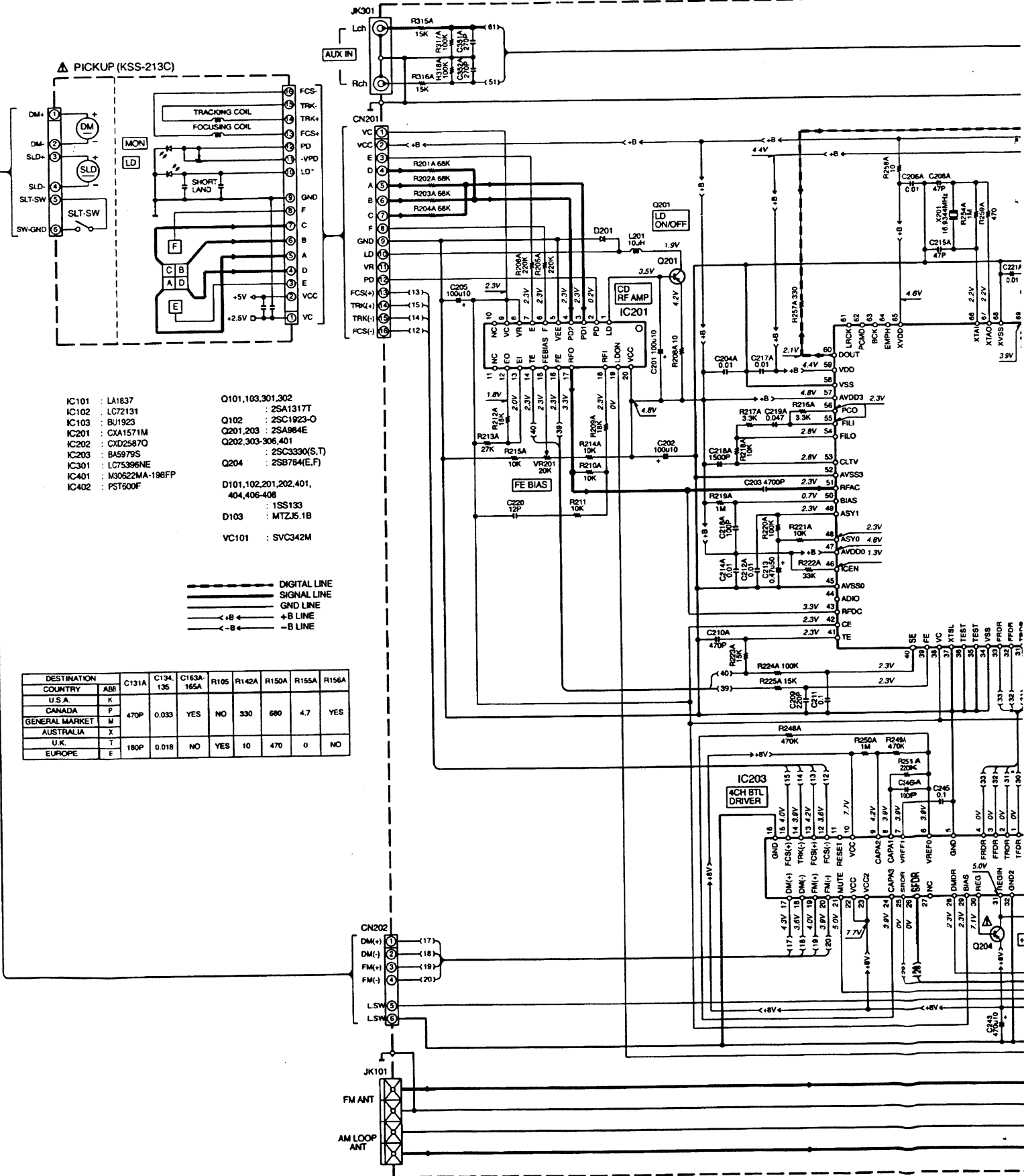
C

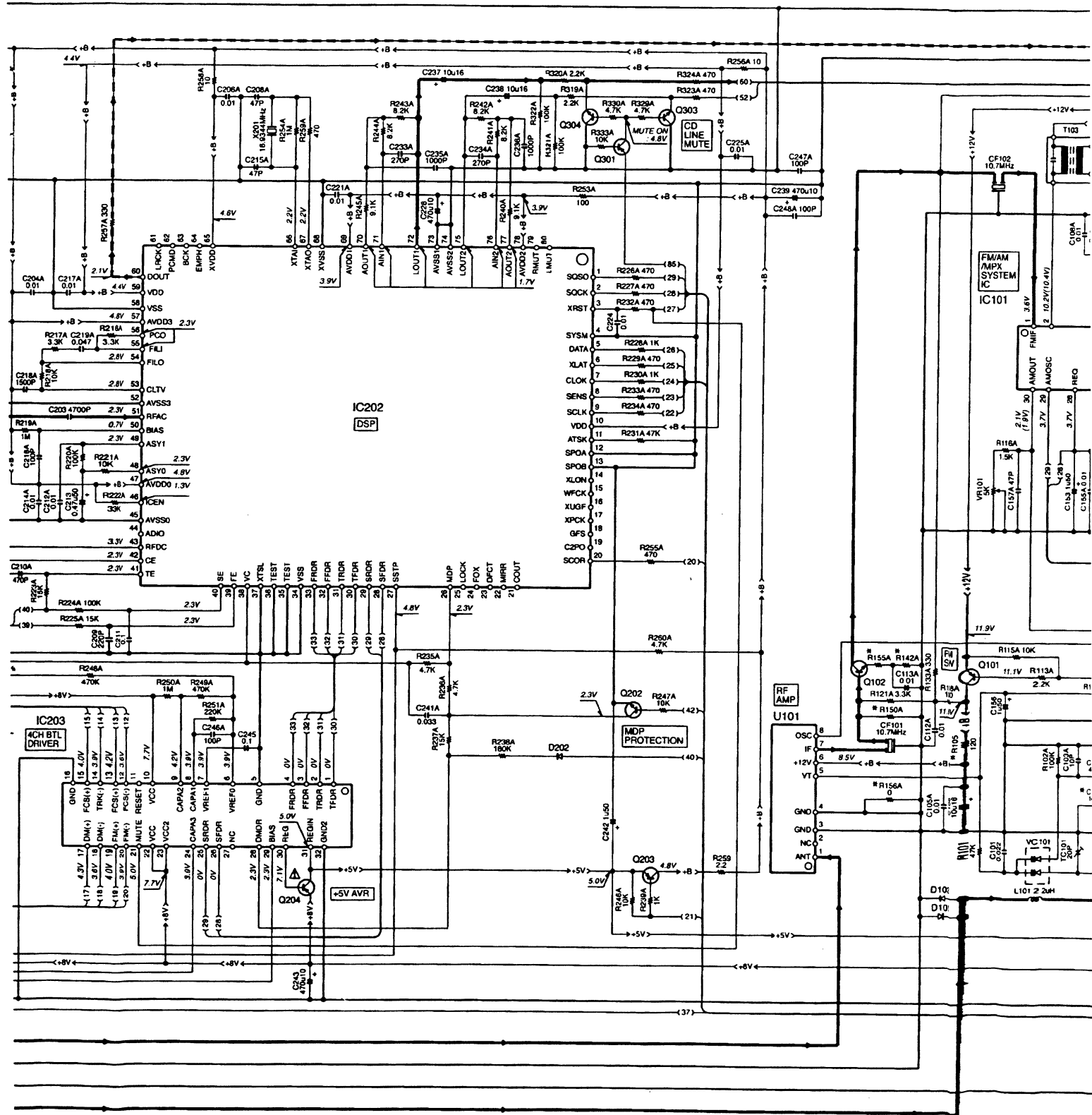
D

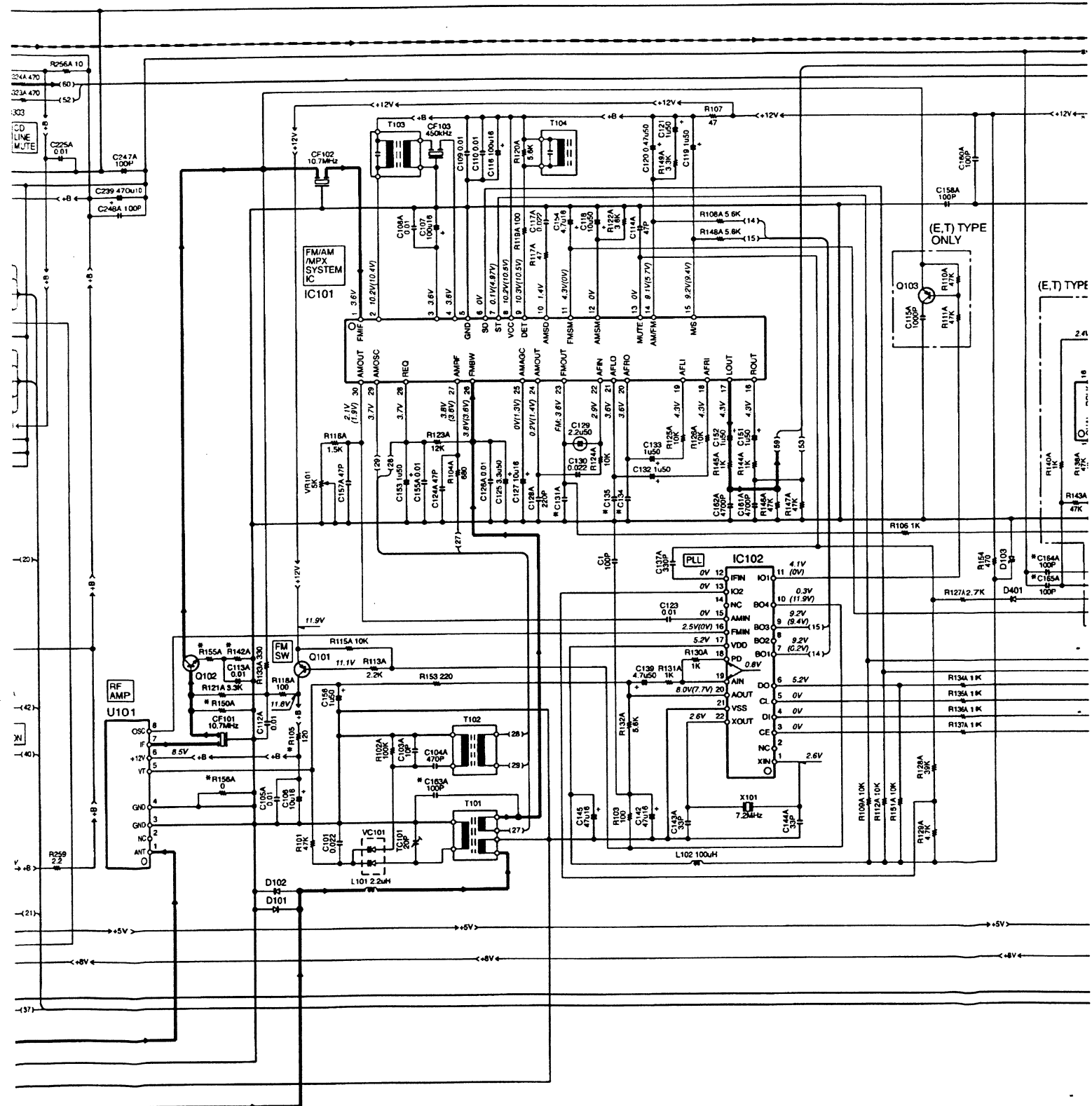
E

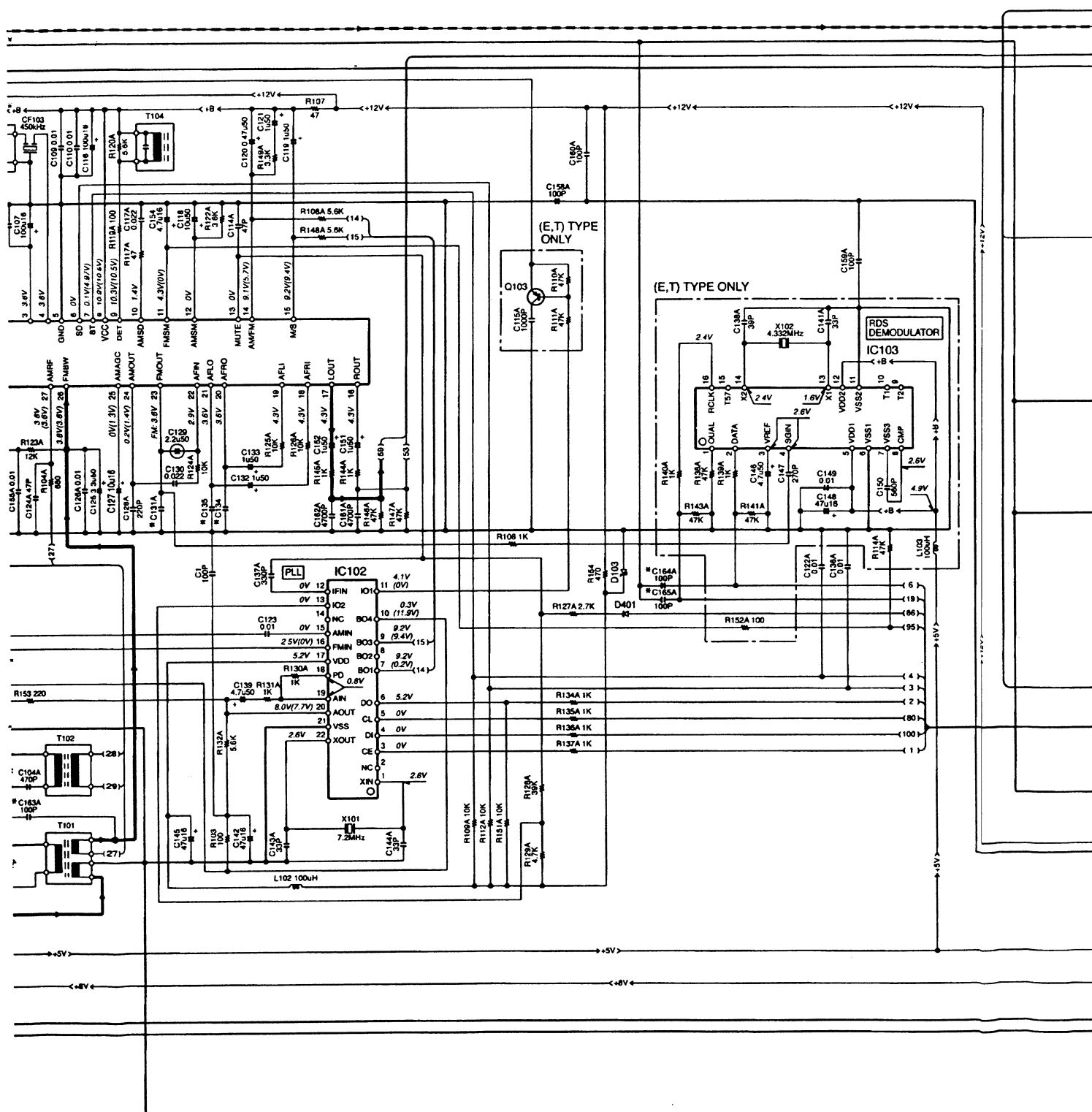
F

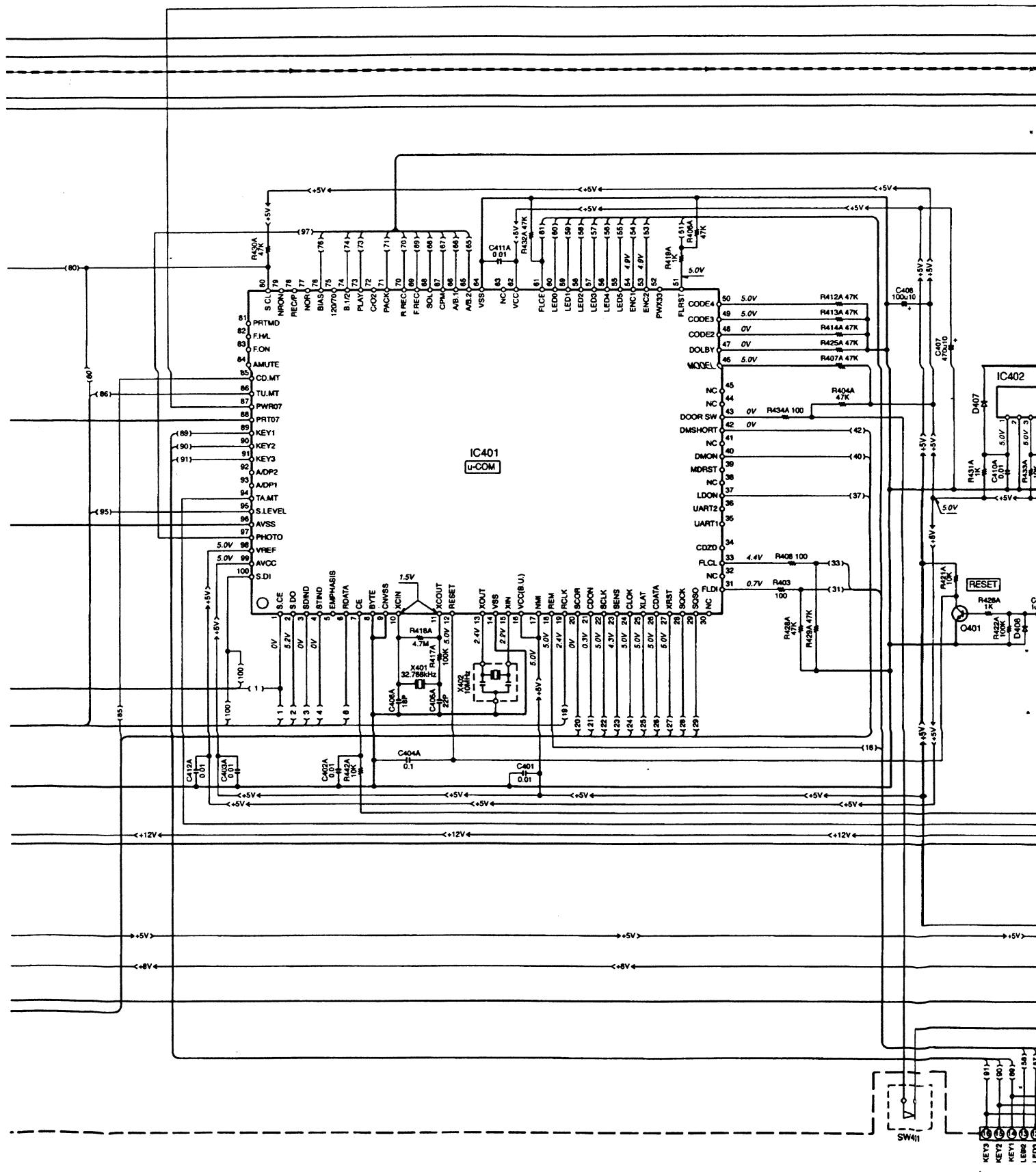
MAIN BOARD(1/2)

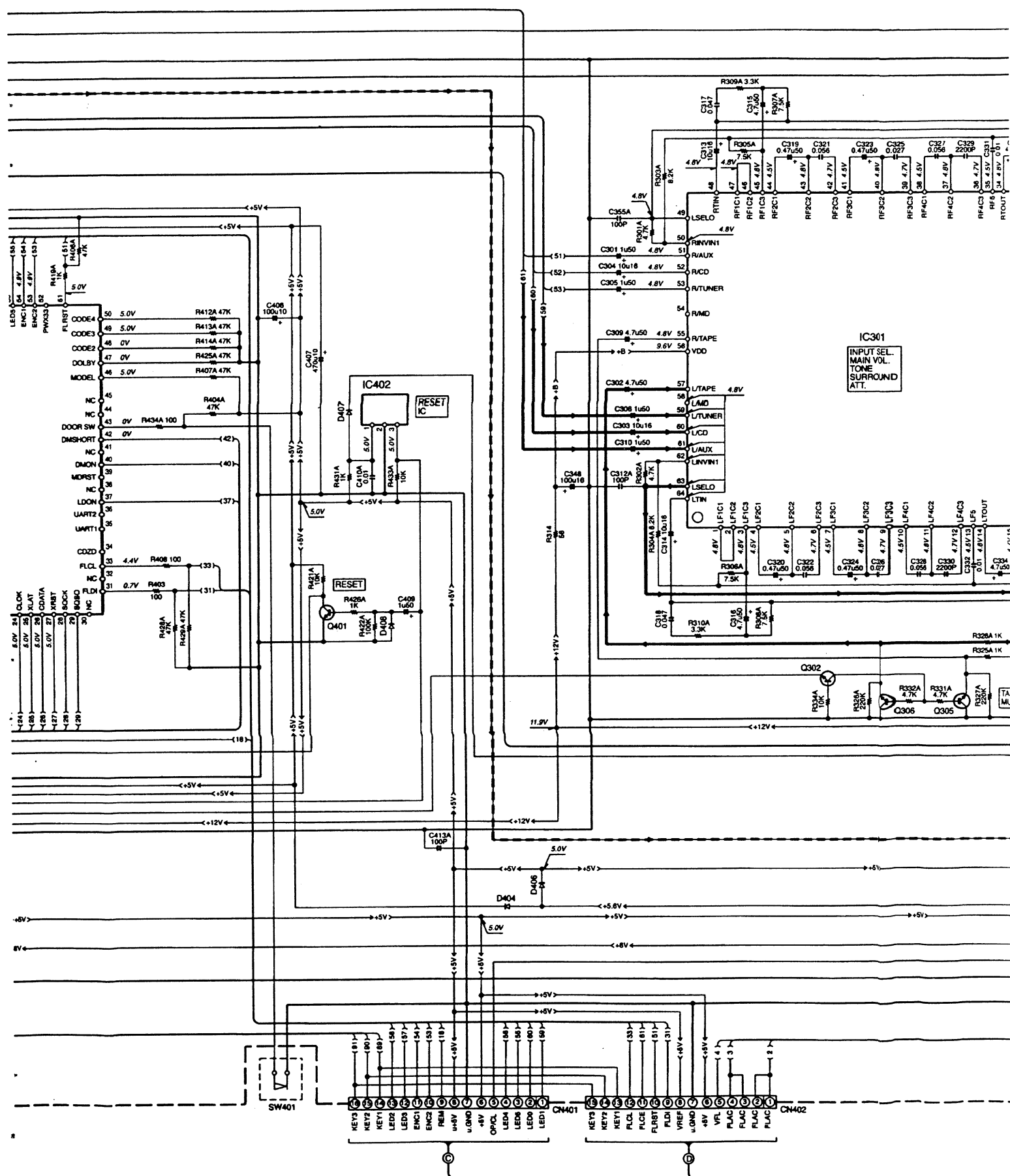


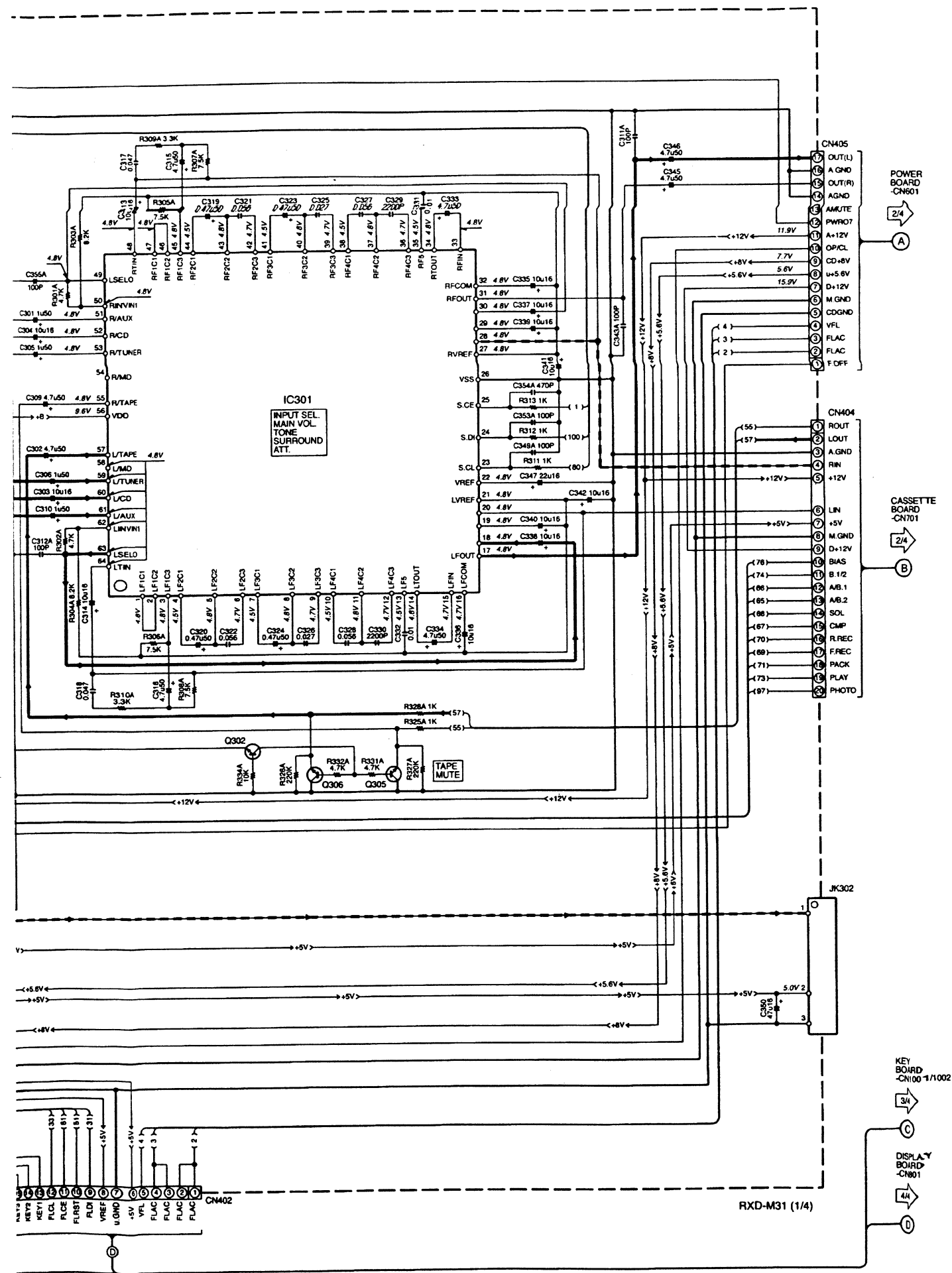


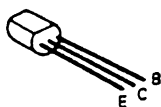




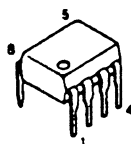




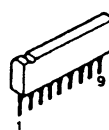


2SB764
2SC1923-O

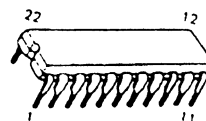
LA6458S



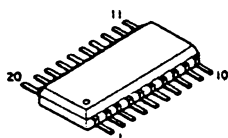
BA3126N



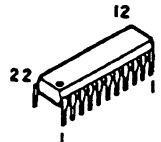
HA12219NT



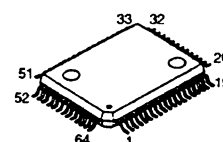
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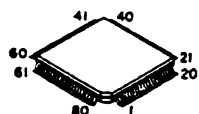
LC72131



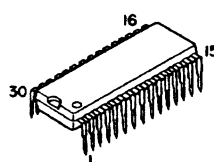
LC75710NE



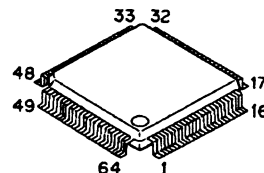
CXD2587Q



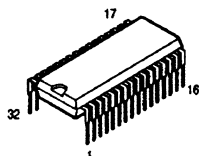
LA1837



LC75396NE



BA5979S



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in () is actual reading measured in the AM mode.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during PLAY unless otherwise specified; The value shown in () is the voltage measured at the moment of STOP.

RXD-M31

KENWOOD

AE

AF

AG

AH

AI

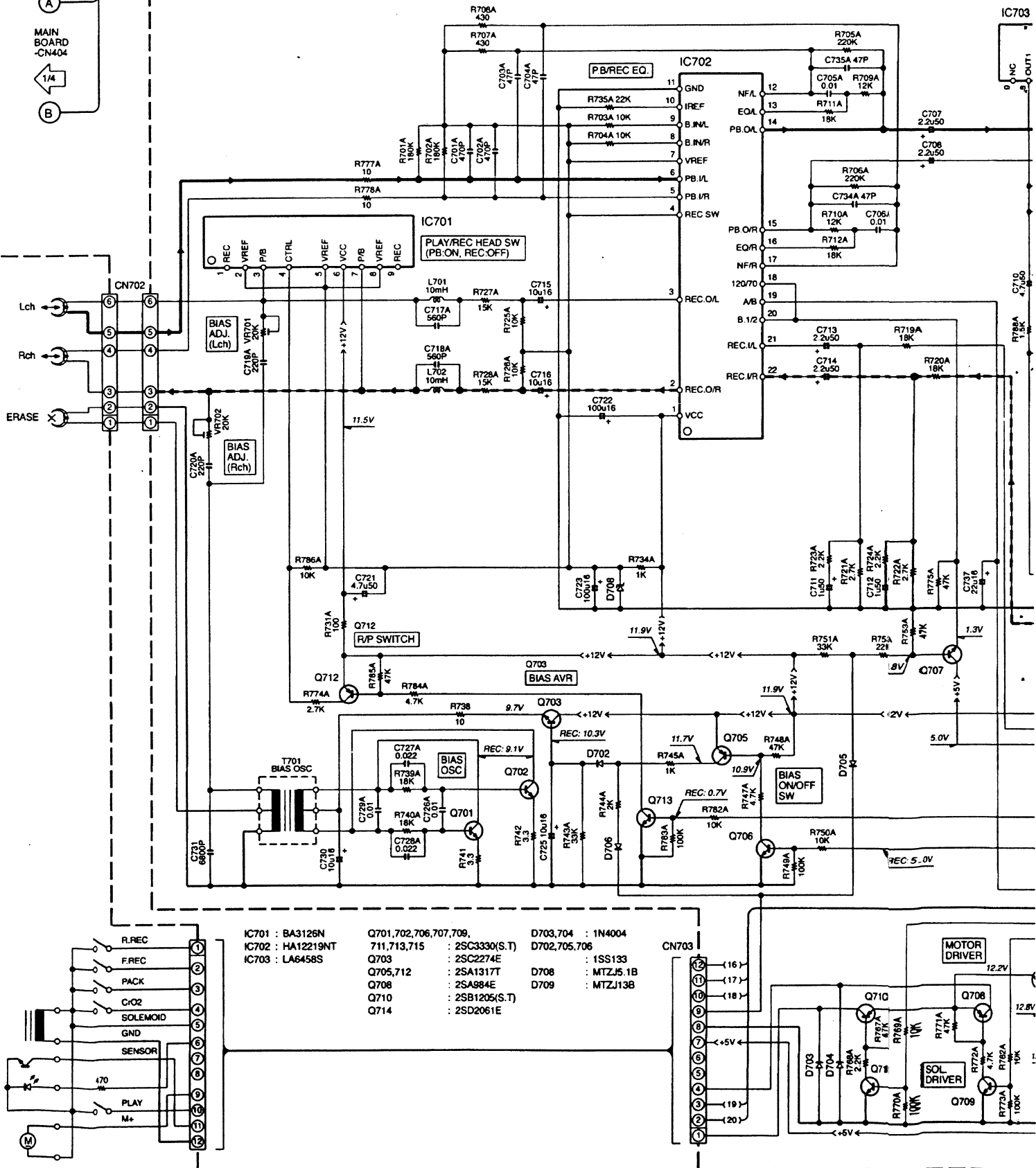
MAIN
BOARD
-CN405

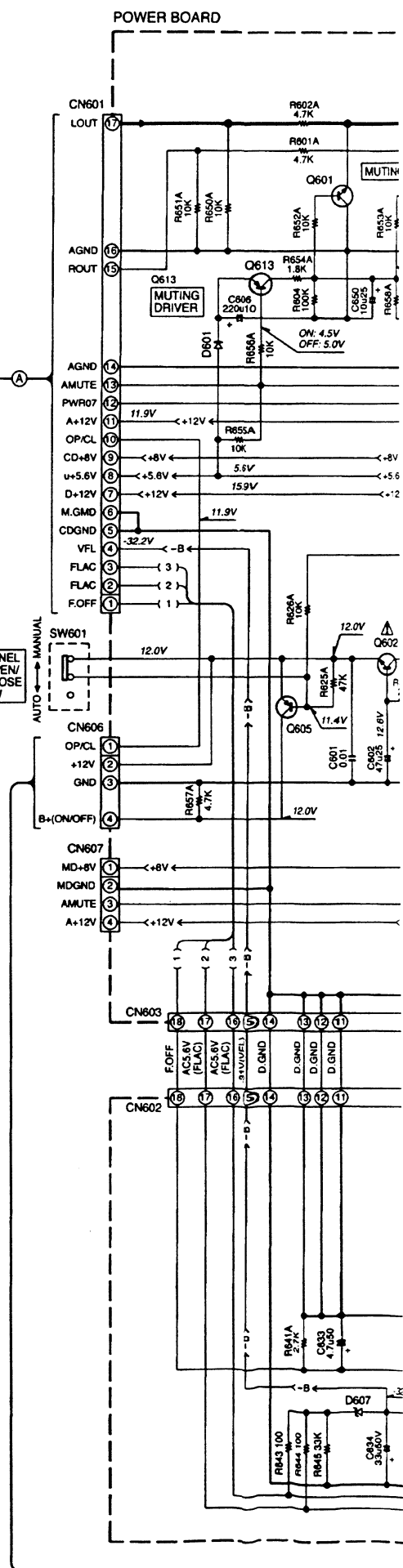
(A)

MAIN
BOARD
-CN404

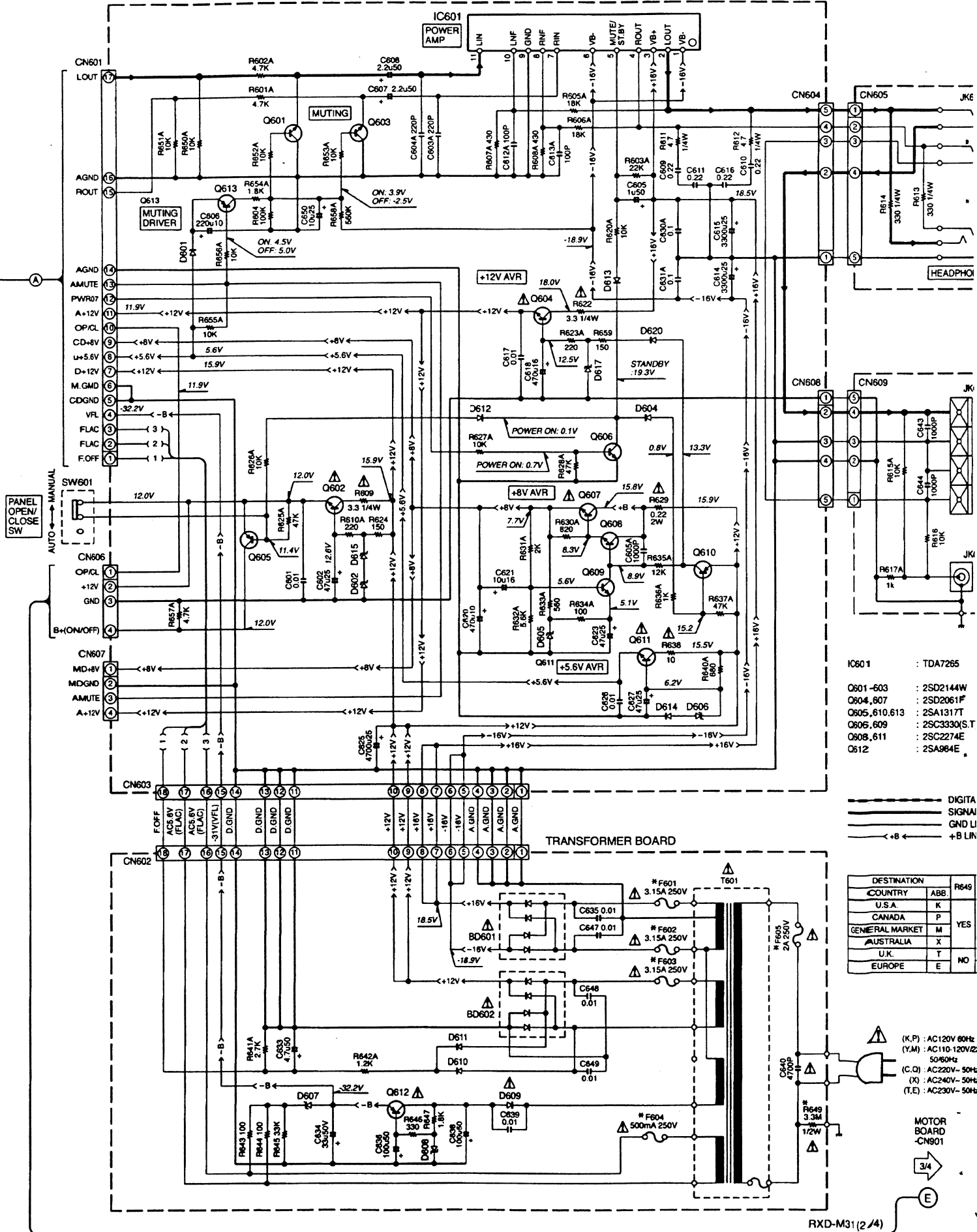
(B)

CASSETTE BOARD





POWER BOARD



- IC601 : TDA7265
- Q601-603 : 2SD2144W
- Q604,607 : 2SD2061P
- Q605,610,613 : 2SA1317T
- Q606,609 : 2SC3330(S.T
- Q608,611 : 2SC2274E
- Q612 : 2SA984E



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AT

AU

AV

AW

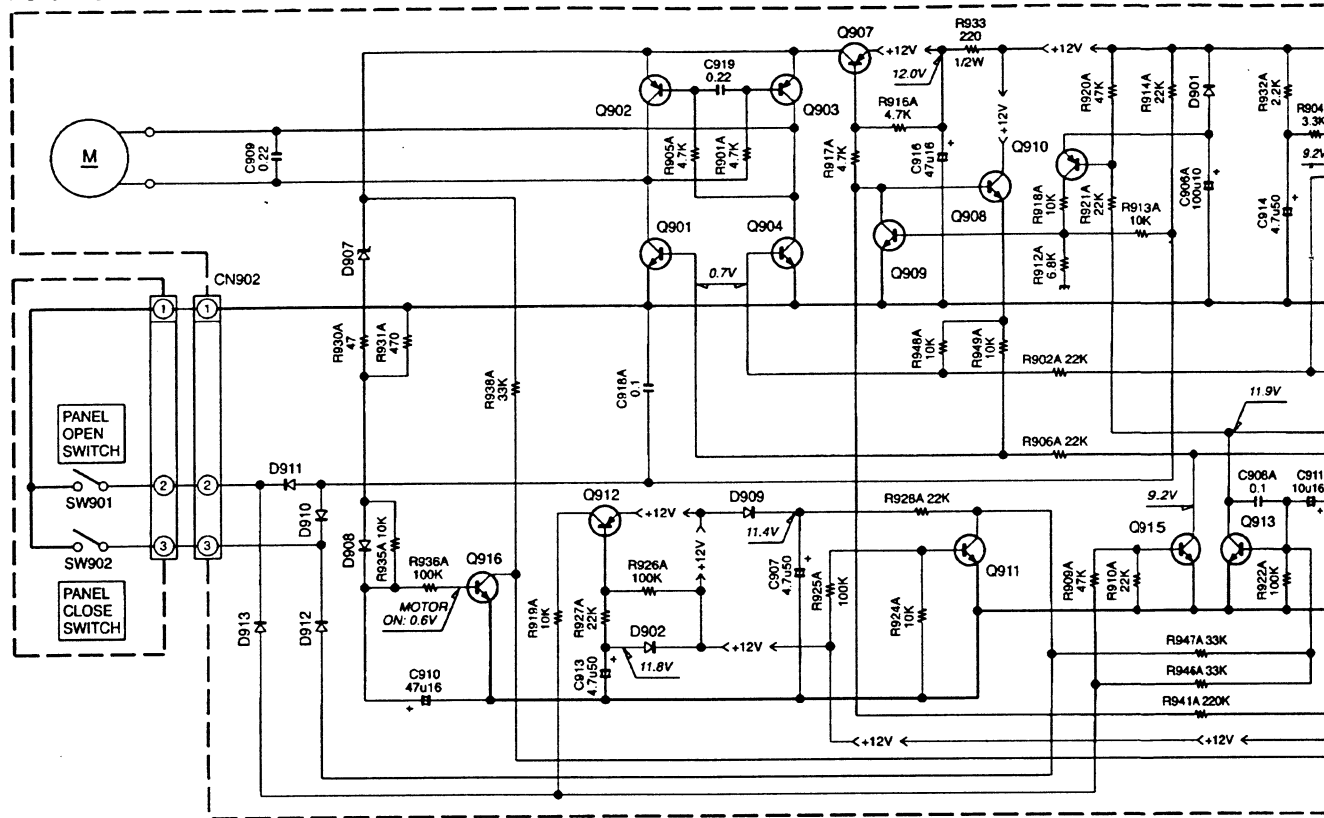
AX

POWER
BOARD
-CN606

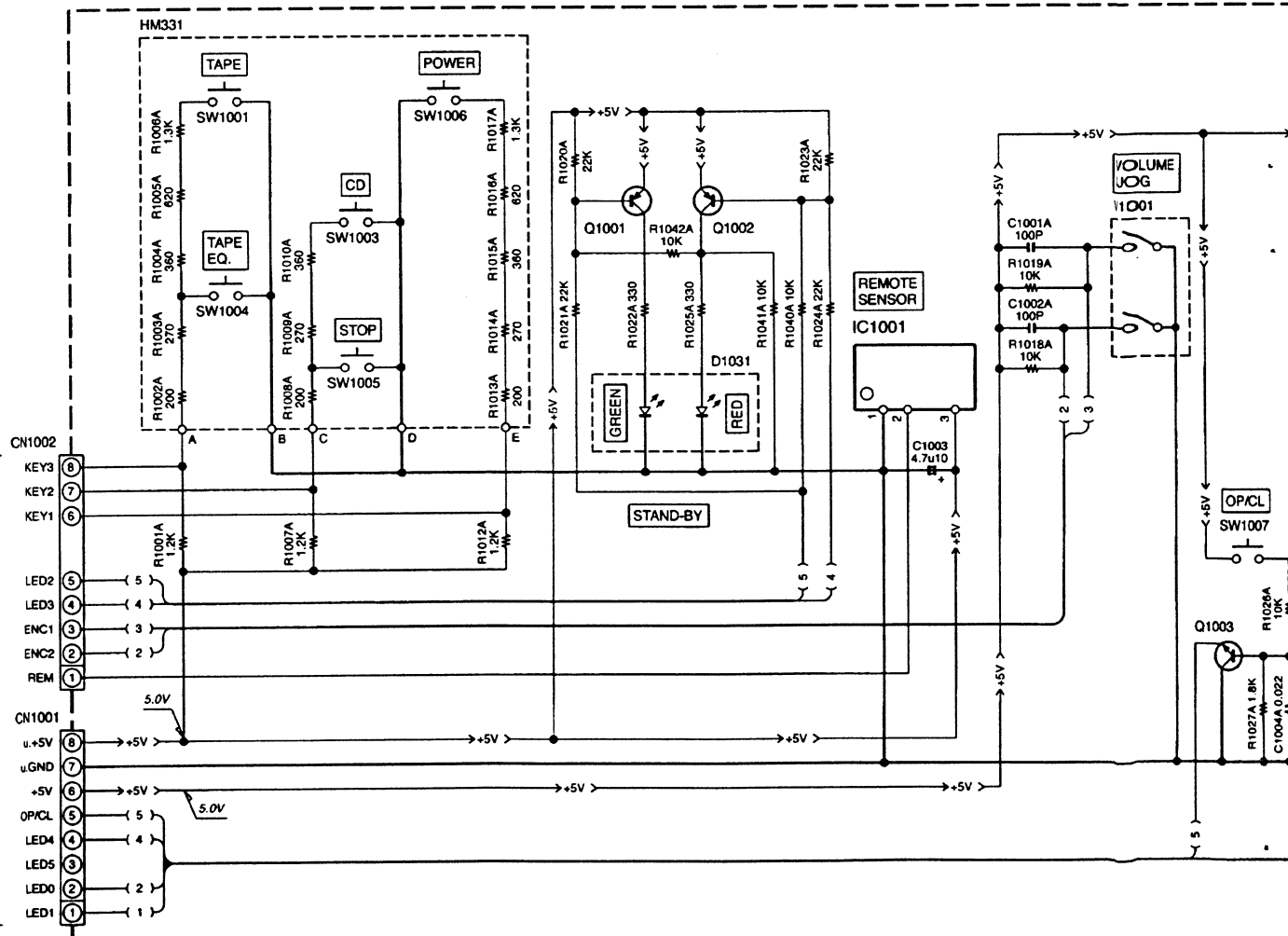
2/4

E

MOTOR BOARD

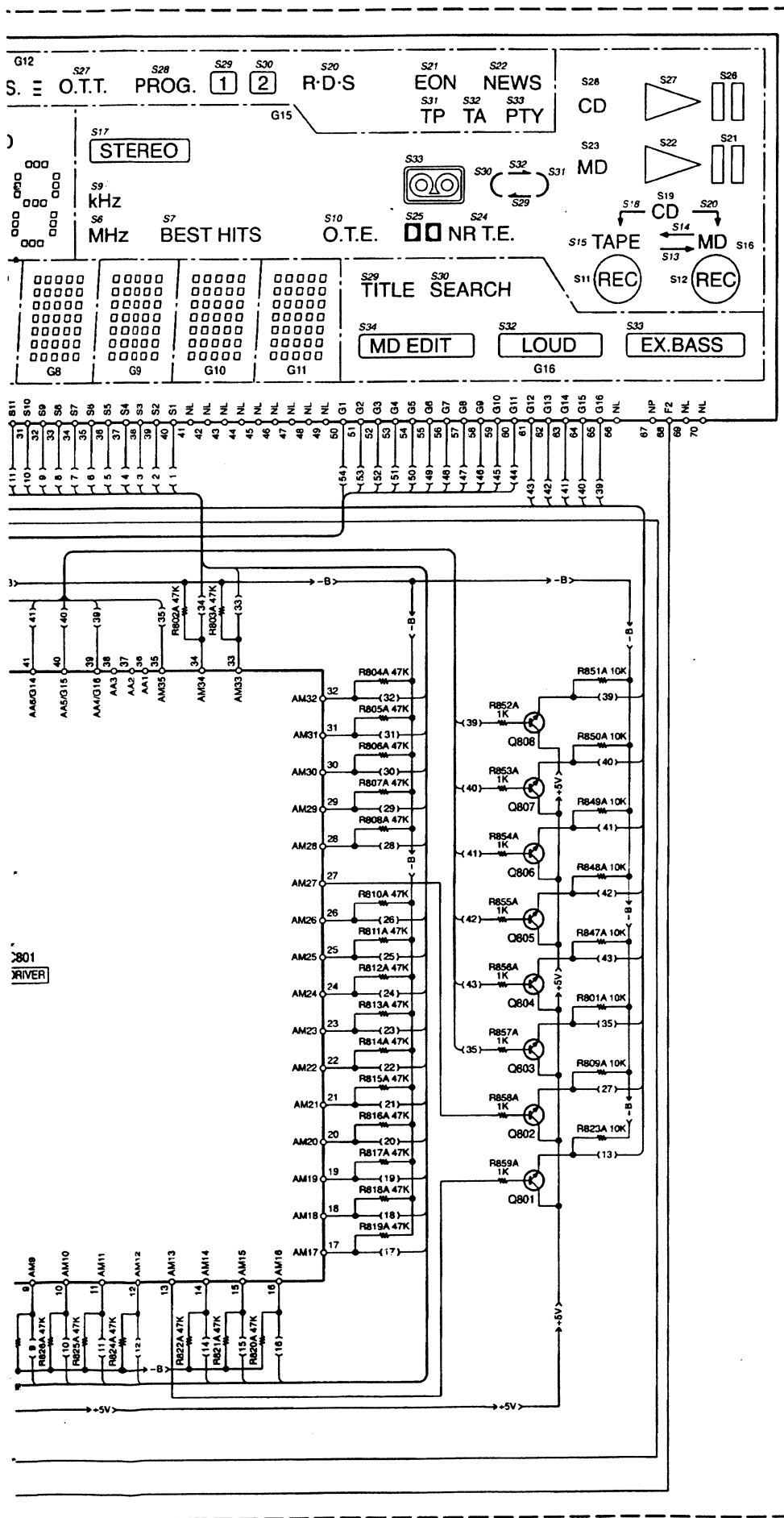


KEY BOARD

MAIN
BOARD
-CN401

1/4

C



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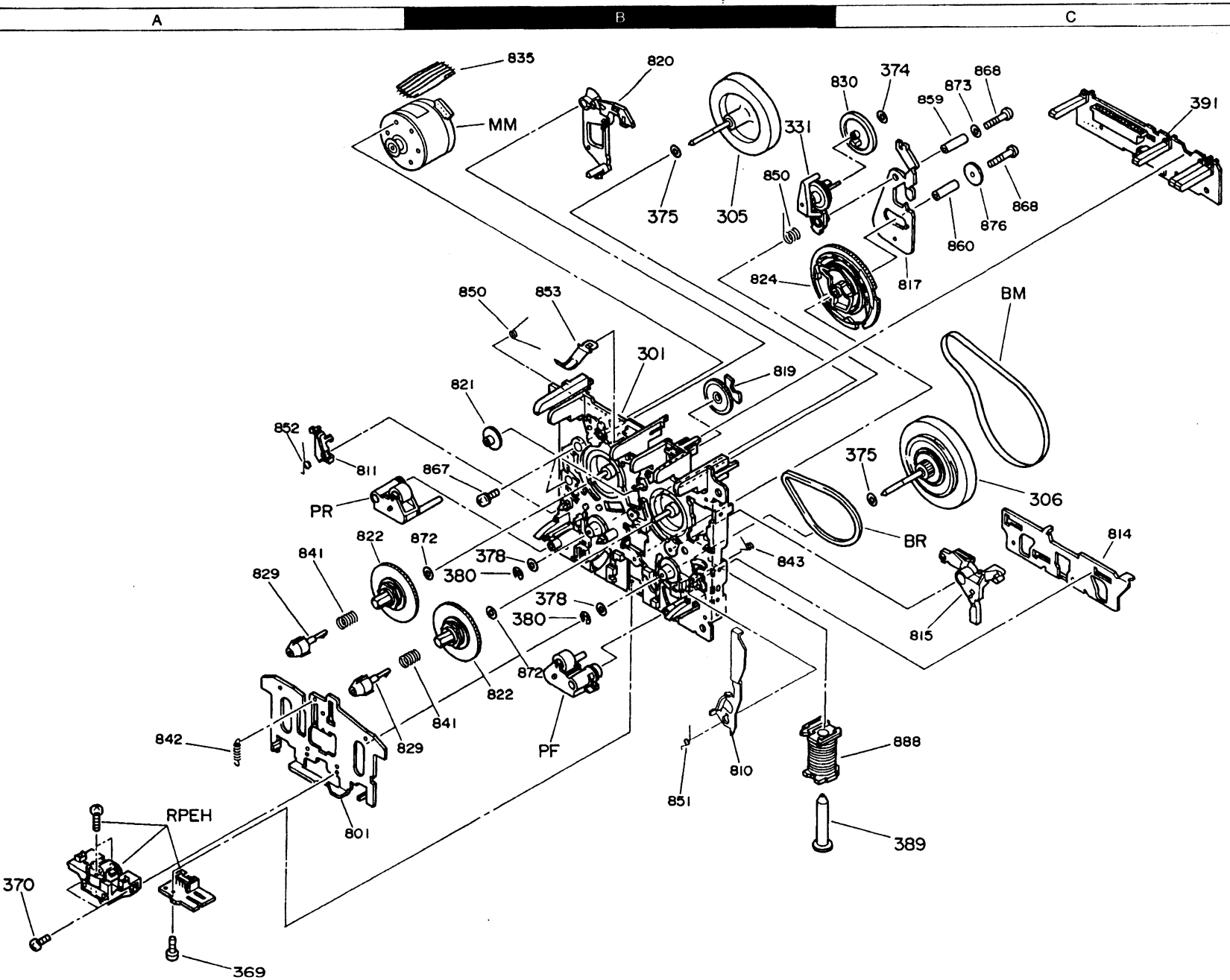
The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

RXD-M31

KENWOOD

RXD-M31

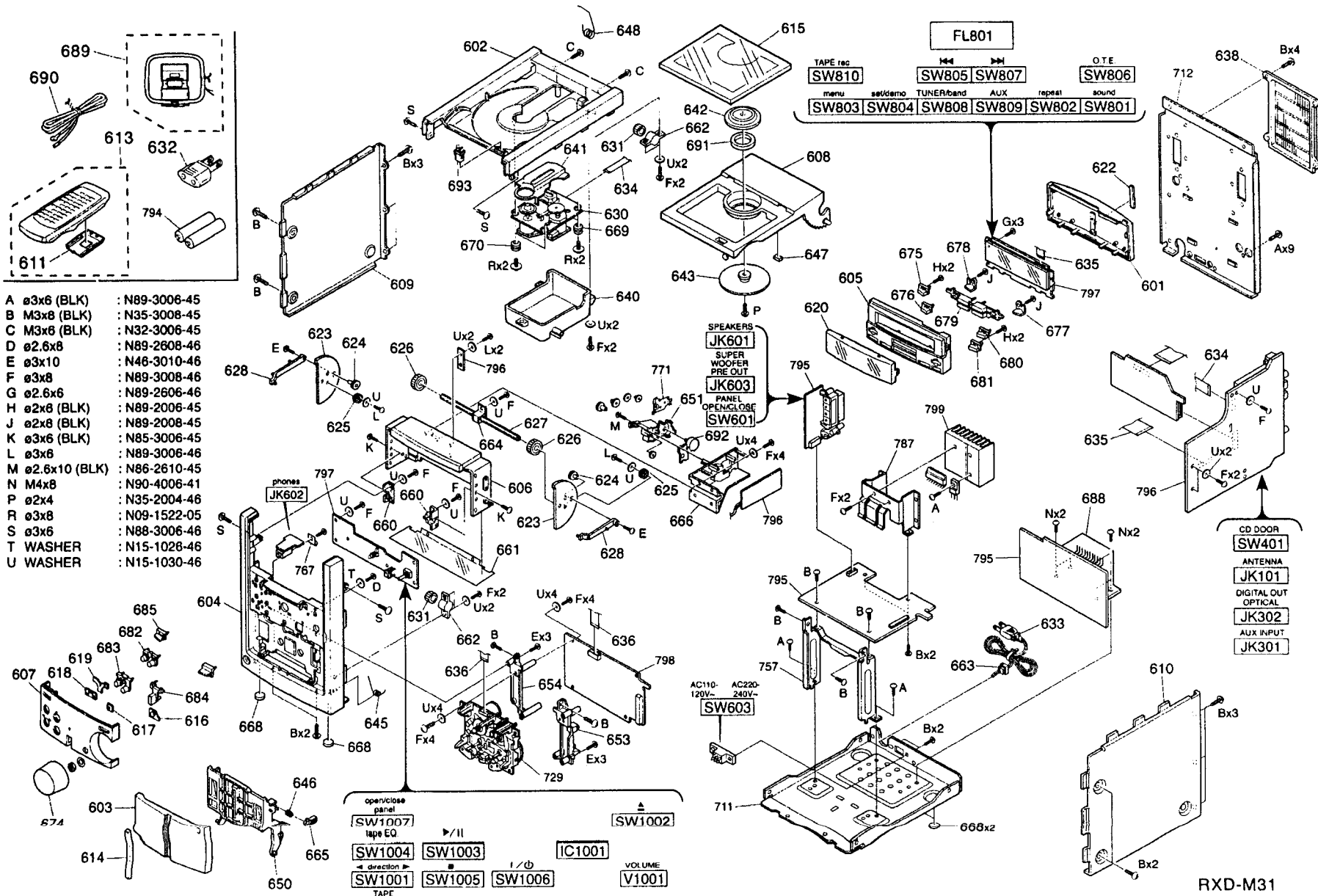
EXPLODED VIEW (CASSETTE DECK MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied.

RXD-M31

EXPLODED VIEW (UNIT)



- A ø3x6 (BLK) : N89-3006-45
 B M3x8 (BLK) : N35-3008-45
 C M3x6 (BLK) : N32-3006-45
 D ø2.6x8 : N89-2608-46
 E ø3x10 : N46-3010-46
 F ø3x8 : N89-3008-46
 G ø2.6x6 : N89-2606-46
 H ø2x8 (BLK) : N89-2006-45
 J ø2x8 (BLK) : N89-2008-45
 K ø3x6 (BLK) : N85-3006-45
 L ø3x8 : N89-3006-46
 M ø2.6x10 (BLK) : N86-2610-45
 N M4x8 : N90-4006-41
 P ø2x4 : N35-2004-46
 R ø3x8 : N09-1522-05
 S ø3x6 : N88-3006-46
 T WASHER : N15-1026-46
 U WASHER : N15-1030-46

Parts with the exploded numbers larger than 700 are not supplied.

RXD-M31

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①

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
RXD-M31						
601	1F	*	A60-1719-08	FRONT CABINET		
602	1E	*	A02-2921-08	TOP CABINET		
603	2D	*	A02-2922-08	CASSETTE DOOR COVER (SILVER)		
604	2D	*	A21-3778-08	PANEL COVER		
605	1E	*	A21-3779-08	TUNING PANEL		
606	2E	*	A21-3780-08	TOP PANEL	KPMX	
607	2D	*	A21-3781-08	CONTROL PANEL	ET	
607	2D	*	A21-3782-08	CONTROL PANEL		
608	1E	*	A52-0374-08	CD DOOR		
609	1D	*	J21-6762-08	METAL PLATE (LEFT SIDE)		
610	2F	*	J21-6763-08	METAL PLATE (RIGHT SIDE)		
611	1D	*	A09-1114-08	BATTERY COVER		
613	1D	*	A70-1241-05	REMOTE CONTROL ASSY(RC-F0503)	KPMX	
613	1D	*	A70-1242-05	REMOTE CONTROL ASSY(RC-F0503E)	ET	
614	2D	*	B10-3524-08	CASSETTE DOOR LENS		
615	1E	*	B10-3525-08	CD DOOR LENS		
616	2D	*	B12-0375-08	SENSOR LENS		
617	2D	*	B12-0376-08	LED LENS (MIDDLE)		
618	2D	*	B12-0377-08	LED LENS (TAPE)		
619	2D	*	B12-0378-08	LED LENS (CD/MD)	KPMX	
620	1E	*	B12-0379-08	DISPLAY LENS	ET	
620	1E	*	B12-0380-08	DISPLAY LENS		
622	1F	*	B03-3854-08	PLATED BAR		
		*	B46-0096-53	WARRANTY CARD	X	
		*	B46-0310-03	WARRANTY CARD	ET	
		*	B46-0328-03	WARRANTY CARD	K	
		*	B46-0336-03	WARRANTY CARD	P	
		*	B58-1643-04	CAUTION CARD (CASSETTE TAPE)		
		*	B60-4227-08	INSTRUCTION MANUAL(EN1)	KP	
		*	B60-4228-08	INSTRUCTION MANUAL(EN2)	MXT	
		*	B60-4229-08	INSTRUCTION MANUAL(FR)	E	
		*	B60-4230-08	INSTRUCTION MANUAL(TC)	M	
		*	B60-4231-08	INSTRUCTION MANUAL(GE)	E	
		*	B60-4232-08	INSTRUCTION MANUAL(IT)	E	
		*	B60-4233-08	INSTRUCTION MANUAL(NE)	E	
		*	B60-4234-08	INSTRUCTION MANUAL(ES)	E	
623	1D,2E	*	D13-1946-08	GEAR A		
624	1D,2E	*	D13-1947-08	GEAR B		
625	1D,2E	*	D13-1948-08	GEAR C		
626	1D,2E	*	D13-1949-08	GEAR D		
627	1E	*	D10-3905-08	SHAFT (HEXAGON)		
628	1D,2E	*	D10-3906-08	LEVER		
630	1E	*	D40-1640-05	CD MECHANISM KSM-213CDM(SONY)		
631	2D,1E	*	D13-1950-08	CD/CASSETTE EJECT GEAR		
△ 632	1D	*	E03-0115-05	AC PLUG ADAPTOR	M	
△ 633	2F	*	E30-2928-08	AC POWER CORD	EM	
△ 633	2F	*	E30-2929-08	AC POWER CORD	KP	
△ 633	2F	*	E30-2930-08	AC POWER CORD	T	
634	1E,1F	*	E35-2429-08	FLAT CABLE (16P,280mm) CD		
635	1F	*	E35-2430-08	FLAT CABLE (15P,270mm) DISPLAY		
636	2E	*	E35-2431-08	FLAT CABLE (12P,60mm) CASSETTE		

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②

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
638	1F	*	F07-1685-08	PVC COVER (BLACK)		
640	1E	*	F07-1687-08	CD COVER		
641	1E	*	F07-1688-08	9829 CD COVER (BLACK) ABS		
642	1E	*	J19-6023-08	213CDM CD MAGNET COVER-TOP		
643	1E	*	J11-0850-08	213CDM CD MAGNET COVER-BOTTOM		
645	2D	*	G09-0671-08	CASSETTE DOOR SPRING		
646	2D	*	G09-0672-08	DOOR LOCKER SPRING		
647	1E	*	G11-2485-08	RUBBER (10X5X3) SIDE TAPE		
648	1E	*	G09-0674-08	CD DOOR SPRING		
		*	H10-7611-08	MAIN UNIT POLYFOAM		
		*	H25-1658-08	POLYBAG 18X24	KP	
		*	H50-3332-08	ITEM CARTON CASE	MX	
		*	H50-3333-08	ITEM CARTON CASE	T	
		*	H50-3334-08	ITEM CARTON CASE	E	
		*	H50-3335-08	ITEM CARTON CASE		
650	2D	*	A13-3147-08	BRACKET (CASSETTE DOOR) BLACK		
651	1E	*	A13-3148-08	BRACKET (MOTOR)		
653	2E	*	A13-3150-08	BRACKET (CASSETTE R)		
654	2E	*	A13-3151-08	BRACKET (CASSETTE L)		
660	2D	*	A13-3152-08	MOUNTING BRACKET		
661	2E	*	F07-1986-08	HS COVER (BLACK)		
662	1E,2E	*	J19-6024-08	HOLDER(CD/CASSETTE EJECT GEAR)	KP	
△ 663	2F	*	J42-0343-08	POWER CORD BUSHING	MET	
△ 663	2F	*	J42-0344-08	POWER CORD BUSHING SR-F42		
664	1E	*	D32-0363-08	STOPPER		
665	2D	*	D32-0364-08	CASSETTE LOCKER		
666	2E	*	A13-3153-08	MOUNTING BRACKET (PCB/CD)		
668	2D,2F	*	J02-1456-08	RUBBER FOOT (12.5X3.5)		
669	1E	*	J02-1454-08	SOFT RUBBER NO TY717A-IIR-40		
670	1E	*	J02-1455-08	HARD RUBBER NO TV717A-11R-500E		
674	2D	*	K29-7626-08	KNOB (VOLUME)		
675	1F	*	K29-7627-08	KNOB (TAPE REC)		
676	1F	*	K29-7628-08	KNOB (MENU)		
677	1F	*	K29-7629-08	KNOB (REPEAT)		
678	1F	*	K29-7630-08	KNOB (SET/DEMO)		
679	1F	*	K29-7631-08	KNOB (FF/TUNER/AUX)		
680	1F	*	K29-7632-08	KNOB (O.T.E)		
681	1F	*	K29-7633-08	KNOB (SOUND)		
682	2D	*	K29-7634-08	KNOB (TAPE/EQ/CD)		
683	2D	*	K29-7635-08	KNOB (TAPE/STOP)		
684	2D	*	K29-7636-08	KNOB (ON/STANDBY)		
685	2D	*	K29-7637-08	KNOB (PANEL OPEN/CLOSE)		
△ 688	2F	*	L07-2772-08	POWER TRANSFORMER	KP	
△ 688	2F	*	L07-2773-08	POWER TRANSFORMER	MX	
△ 688	2F	*	L07-2771-08	POWER TRANSFORMER	ET	
693	1E	*	D32-0365-08	CD LOCKER PLASTIC		
689	1D	*	T90-0846-08	AM LOOP ANTENNA	KPMX	
690	1D	*	T90-0801-05	LEAD WIRE ANTENNA	ET	
690	1D	*	T90-0810-05	LEAD WIRE ANTENNA		
691	1E	*	T99-0624-08	MAGNET MNB FERRITE CORES		
692	1E	*	T42-0953-08	GEAR MOTOR		
△ SW603	2E	*	S62-0091-08	SLIDE SWITCH		

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PARTS LIST

RXD-M31

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3

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
POWER UNIT						
C601			CK45FB1H103Z	CERAMIC 0.010UF Z		
C602			CE04KW1E470M	ELECTRO 47UF 25WV		
C603A,604A			CK73FB1H221J	CHIP C 220PF J		
C605			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C605A			CK73FB1H102K	CHIP C 1000PF K		
C606			CE04KW1A221M	ELECTRO 220UF 10WV		
C607,608			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C609-611			CK45FB1H224Z	CERAMIC 0.22UF Z		
C612A,613A			CC73FSL1H101J	CHIP C 100PF J		
C614,615			CE04KW1E332M	ELECTRO 3300UF 25WV		
C616			CK45FB1H224Z	CERAMIC 0.22UF Z		
C617			CK45FB1H103Z	CERAMIC 0.010UF Z		
C618			CE04KW1C471M	ELECTRO 470UF 16WV		
C620			CE04KW1A471M	ELECTRO 470UF 10WV		
C621			CE04KW1C100M	ELECTRO 10UF 16WV		
C623			CE04KW1E470M	ELECTRO 47UF 25WV		
C625			CE04KW1E472M	ELECTRO 4700UF 25WV		
C626			CK45FB1H103Z	CERAMIC 0.010UF Z		
C627			CE04KW1E470M	ELECTRO 47UF 25WV		
C630A,631A			CK45FB1H104Z	CERAMIC 0.10UF Z		
C633			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C634			CE04KW1H330M	ELECTRO 33UF 50WV		
C635			CK45FB1H103Z	CERAMIC 0.010UF Z		
C636			CE04KW1H101M	ELECTRO 100UF 50WV		
C638			CE04KW1H101M	ELECTRO 100UF 50WV		
Δ C639			CK45FB1H103Z	CERAMIC 0.010UF Z		
Δ C640			C90-3862-08	SAFETY CAPA 0.0047UF 250V		
Δ C643,644			CK45FB1H102K	CERAMIC 1000PF K		
Δ C647-649			CK45FB1H103Z	CERAMIC 0.010UF Z		
Δ C650			CE04KW1E100M	ELECTRO 10UF 25WV		
CN601		*	E35-2426-08	PIN ASSY (17P)		
CN602		*	E40-8450-08	PIN ASSY (18P)		
CN603		*	E35-2427-08	PIN ASSY (18P)		
JK601		*	E70-0113-08	SPEAKER TERMINAL (4P)		
JK602		*	E11-0398-08	HEADPHONE JACK		
JK603		*	E63-1092-08	PHONO JACK (1P) SUPER WOOFER		
Δ F601-603		*	F50-0151-08	FUSE 3.15A/250V	KPME	
Δ F601-603		*	F50-0152-08	FUSE 2A/250V	T	
Δ F604		*	F50-0149-08	GLASS FUSE 500MA/250V	KPME	
Δ F604		*	F50-0153-08	GLASS FUSE 500MA/250V	T	
Δ F605		*	F50-0150-08	FUSE 2A/250V	KPME	
Δ F605		*	F50-0154-08	FUSE 3.15A/250V	T	
R601A,602A			RK73FB2A472J	CHIP R 4.7K J	1/10W	
R603A			RK73FB2A223J	CHIP R 22K J	1/10W	
R604A			RK73FB2A104J	CHIP R 100K J	1/10W	
R605A,606A			RK73FB2A183J	CHIP R 18K J	1/10W	
R607A,608A			RK73FB2A431J	CHIP R 430 J	1/10W	
Δ R609		*	R92-1921-08	FUSE RESISTOR 3.3 J	1/4W	
Δ R610A			RK73FB2A221J	CHIP R 22K J	1/10W	
Δ R611,612			R92-0341-05	FUSE RESIST 4.7 J	1/4W	
R615A			RK73FB2A103J	CHIP R 10K J	1/10W	
R617A			RK73FB2A102J	CHIP R 1.0K J	1/10W	

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4

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
Δ R620A		*	RK73FB2A103J	CHIP R 10K J	1/10W	
Δ R622			R92-1921-08	FUSE RESISTOR 3.3 J	1/4W	
Δ R623A			RK73FB2A221J	CHIP R 220 J	1/10W	
Δ R625A			RK73FB2A473J	CHIP R 47K J	1/10W	
Δ R626A,627A			RK73FB2A103J	CHIP R 10K J	1/10W	
Δ R628A			RK73FB2A473J	CHIP R 47K J	1/10W	
Δ R629			RS14GB3DR22J	FL-PROOF RS 0.22 J	2W	
Δ R630A			RK73FB2A821J	CHIP R 820 J	1/10W	
Δ R631A			RK73FB2A202J	CHIP R 2.0K J	1/10W	
Δ R632A			RK73FB2A562J	CHIP R 5.6K J	1/10W	
Δ R633A			RK73FB2A561J	CHIP R 560 J	1/10W	
Δ R634A			RK73FB2A101J	CHIP R 100 J	1/10W	
Δ R635A			RK73FB2A123J	CHIP R 12K J	1/10W	
Δ R636A			RK73FB2A102J	CHIP R 1.0K J	1/10W	
Δ R637A			RK73FB2A473J	CHIP R 47K J	1/10W	
Δ R638			R92-0219-05	FUSE RESIST 10 G	1/4W	
Δ R640A			RK73FB2A681J	CHIP R 680 J	1/10W	
Δ R641A			RK73FB2A272J	CHIP R 2.7K J	1/10W	
Δ R642A			RK73FB2A122J	CHIP R 1.2K J	1/10W	
Δ R649			RD14BB2H335J	RD 3.3M J	1/2W	KP
R650A-653A			RK73FB2A103J	CHIP R 10K J	1/10W	
R654A			RK73FB2A182J	CHIP R 1.8K J	1/10W	
R655A,656A			RK73FB2A103J	CHIP R 10K J	1/10W	
R657A			RK73FB2A472K	CHIP R 4.7K K	1/10W	
R658A			RK73FB2A564J	CHIP R 560K J	1/10W	
SW601		*	S62-0090-08	SLIDE SWITCH		
Δ BD601,602		*	RS402	BRIDGE RECTIFIER RS402		
Δ D601			1SS133	SWITCHING DIODE		
Δ D602			MTZJ6.8B	ZENER DIODE		
Δ D604			1SS133	SWITCHING DIODE		
Δ D605			MTZJ5.1B	ZENER DIODE		
Δ D606			MTZJ5.6B	ZENER DIODE		
Δ D607			MTZJ6.2B	ZENER DIODE		
Δ D608			MTZJ33B	ZENER DIODE		
Δ D609			1N4004	DIODE		
Δ D610-614			1SS133	DIODE (SWITCHING)		
Δ D615,616			MTZJ5.6B	ZENER DIODE		
Δ D617			MTZJ6.8B	ZENER DIODE		
Δ D620			1SS133	DIODE (SWITCHING)		
Δ IC601			TDA7265	IC		
Δ Q601-603		*	2SD2144W	TRANSISTOR		
Δ Q604			2SD2061F	TRANSISTOR		
Δ Q605			2SA1317T	TRANSISTOR		
Δ Q606			2SC3330(S,T)	TRANSISTOR		
Δ Q607			2SD2061F	TRANSISTOR		
Δ Q608			2SC2274E	TRANSISTOR		
Δ Q609			2SC3330(S,T)	TRANSISTOR		
Δ Q610			2SA1317T	TRANSISTOR		
Δ Q611			2SC2274E	TRANSISTOR		
Δ Q612			2SA984E	TRANSISTOR		
Δ Q613			2SA1317T	TRANSISTOR		
MAIN UNIT						
C1			CC45FSL1H101J	CERAMIC 100PF J		
C101			CK45FB1H223Z	CERAMIC 0.022UF Z		

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Ref. No	Add-ress	New Parts	Parts No.	Description		Desti-nation	Re-marks
C103A			CC73FSL1H100J	CHIP C	10PF	J	
C104A			CK73FB1H471K	CHIP C	470PF	K	
C105A			CK73FB1E103K	CHIP C	0.010UF	K	
C106			CE04KW1C100M	ELECTRO	10UF	16WV	
C107			CE04KW1C101M	ELECTRO	100UF	16WV	
C108A			CK73FB1E103K	CHIP C	0.010UF	K	
C109, 110			CK45FB1H103Z	CERAMIC	0.010UF	Z	
C112A, 113A			CK73FB1E103K	CHIP C	0.010UF	K	
C114A			CC73FSL1H470J	CHIP C	47PF	J	
C115A			CK73FB1H102J	CHIP C	1000PF	J	ET
C116			CE04KW1C101M	ELECTRO	100UF	16WV	
C117A			CK73FB1E223K	CHIP C	0.022UF	K	
C118			CE04KW1C100M	ELECTRO	10UF	16WV	
C119			CE04KW1H010M	ELECTRO	1.0UF	50WV	
C120			CE04KW1HR47M	ELECTRO	0.47UF	50WV	
C121			CE04KW1H010M	ELECTRO	1.0UF	50WV	
C122A			CK73FB1E103K	CHIP C	0.010UF	K	
C123			CK45FB1H103Z	CERAMIC	0.010UF	Z	
C124A			CC73FSL1H470J	CHIP C	47PF	J	
C125			CE04KW1H3R3M	ELECTRO	3.3UF	50WV	
C126A			CK73FB1E103K	CHIP C	0.010UF	K	
C127			CE04KW1C100M	ELECTRO	10UF	16WV	
C128A			CK73FB1H221J	CHIP C	220PF	J	
C129			CE04HW1H2R2M	NP-ELEC	2.2UF	50WV	
C130			CK45FB1H223Z	CERAMIC	0.022UF	Z	
C131A			CC73FSL1H181J	CHIP C	180PF	J	ET
C131A			CK73FB1H471K	CHIP C	470PF	K	KPMX
C132, 133			CE04KW1H010M	ELECTRO	1.0UF	50WV	
C134, 135			CQ93FMQ1H183J	MYLAR	0.018UF	J	ET
C134, 135			CQ93FMQ1H333J	MYLAR	0.033UF	J	KPMX
C136A			CK73FB1E103K	CHIP C	0.010UF	K	
C137A			CC73FCH1H331J	CHIP C	330PF	J	
C138A			CC73FCH1H390J	CHIP C	39PF	J	ET
C139			CE04KW1H4R7M	ELECTRO	4.7UF	50WV	
C141A			CC73FCH1H330J	CHIP C	33PF	J	ET
C142			CE04KW1C470M	ELECTRO	47UF	16WV	
C143A, 144A			CC73FCH1H330J	CHIP C	33PF	J	
C145			CE04KW1C470M	ELECTRO	47UF	16WV	
C146			CE04KW1H4R7M	ELECTRO	4.7UF	50WV	ET
C147			CC45FSL1H271J	CERAMIC	270PF	J	ET
C148			CE04KW1C470M	ELECTRO	47UF	16WV	ET
C149			CK45FB1H103Z	CERAMIC	0.010UF	Z	ET
C150			CC45FSL1H581J	CERAMIC	580PF	J	
C151-153			CE04KW1H010M	ELECTRO	1.0UF	50WV	
C154			CE04KW1H100M	ELECTRO	10UF	50WV	
C155A			CK73FB1E103K	CHIP C	0.010UF	K	
C156			CE04KW1H010M	ELECTRO	1.0UF	50WV	
C157A			CC73FSL1H470J	CHIP C	47PF	J	
C158A-160A			CC73FSL1H101J	CHIP C	100PF	J	
C161A, 162A			CK73FB1H472K	CHIP C	4700PF	K	
C163A-165A			CC73FSL1H101J	CHIP C	100PF	J	KPMX
C201, 202			CE04KW1A101M	ELECTRO	100UF	10WV	
C203			CK45FB1H472K	CERAMIC	4700PF	K	
C204			CK45FB1H103Z	CERAMIC	0.010UF	Z	
C205			CE04KW1A101M	ELECTRO	100UF	10WV	

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C206A			CK73FB1E103K	CHIP C	0.010UF	K	
C208A			CC73FSL1H470J	CHIP C	47PF	J	
C209			CC45FSL1H221J	CERAMIC	220PF	J	
C210A			CK73FB1H471K	CHIP C	470PF	K	
C211A			CK45FB1H104Z	CERAMIC	0.10UF	Z	
C212A			CK73FB1E103K	CHIP C	0.010UF	K	
C213			CE04KW1HR47M	ELECTRO	0.47UF	50WV	
C214A			CK73FB1E103K	CHIP C	0.010UF	K	
C215A			CC73FCH1H240J	CHIP C	24PF	J	
C215A			CC73FSL1H470J	CHIP C	47PF	J	
C216A			CC73FSL1H101J	CHIP C	100PF	J	
C217A			CK73FB1E103K	CHIP C	0.010UF	K	
C218A			CK73FB1H152K	CHIP C	1500PF	K	
C219A			CK73FB1H473K	CHIP C	0.047UF	K	
C220			CC45FSL1H120J	CERAMIC	12PF	J	
C221A			CK45FB1H103Z	CERAMIC	0.010UF	Z	
C224			CK45FB1H103Z	CERAMIC	0.010UF	Z	
C225A			CK73FB1E103K	CHIP C	0.010UF	K	
C228			CE04KW1A471M	ELECTRO	470UF	10WV	
C233A, 234A			CK73FB1H271J	CHIP C	270PF	J	
C235A, 236A			CK73FB1H102J	CHIP C	1000PF	J	
C237, 238			CE04KW1C100M	ELECTRO	10UF	16WV	
C239			CE04KW1A471M	ELECTRO	470UF	10WV	
C241A			CK73FB1E333K	CHIP C	0.033UF	K	
C242			CE04KW1H010M	ELECTRO	1.0UF	50WV	
C243			CE04KW1A471M	ELECTRO	470UF	10WV	
C245			CK45FB1H104Z	CERAMIC	0.10UF	Z	
C246A-248A			CC73FSL1H101J	CHIP C	100PF	J	
C301			CE04KW1H010M	ELECTRO	1.0UF	50WV	
C302			CE04KW1H4R7M	ELECTRO	4.7UF	50WV	
C303, 304			CE04KW1C100M	ELECTRO	10UF	16WV	
C305, 306			CE04KW1H010M	ELECTRO	1.0UF	50WV	
C309			CE04KW1H4R7M	ELECTRO	4.7UF	50WV	
C310			CE04KW1H010M	ELECTRO	1.0UF	50WV	
C311A, 312A			CC73FSL1H101J	CHIP C	100PF	J	
C313, 314			CE04KW1C100M	ELECTRO	10UF	16WV	
C315, 316			CE04KW1H4R7M	ELECTRO	4.7UF	50WV	
C317, 318			CK45FB1H473Z	CERAMIC	0.047UF	Z	
C319, 320			CE04KW1HR47M	ELECTRO	0.47UF	50WV	
C321, 322			CK45FF1H563Z	CERAMIC	0.056UF	Z	
C323, 324			CE04KW1HR47M	ELECTRO	0.47UF	50WV	
C325, 326			CK45FB1H273K	CERAMIC	0.027UF	K	
C327, 328			CK45FF1H563Z	CERAMIC	0.056UF	Z	
C329, 330			CK45FB1H222K	CERAMIC	2200PF	K	
C331, 332			CK45FB1H103Z	CERAMIC	0.010UF	Z	
C333, 334			CE04KW1H4R7M	ELECTRO	4.7UF	50WV	
C335-342			CE04KW1C100M	ELECTRO	10UF	16WV	
C343A			CC73FSL1H101J	CHIP C	100PF	J	
C345, 346			CE04KW1H4R7M	ELECTRO	4.7UF	50WV	
C347			CE04KW1C220M	ELECTRO	22UF	16WV	
C348			CE04KW1C101M	ELECTRO	100UF	16WV	
C349A			CC73FSL1H101J	CHIP C	100PF	J	
C350			CE04KW1C470M	ELECTRO	47UF	16WV	
C351A, 352A			CK73FB1H271J	CHIP C	270PF	J	
C353A			CC73FSL1H101J	CHIP C	100PF	J	

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C354A C355A C401A-403A C404A C405A			CK73FB1H471K CC73FSL1H101J CK73FB1E103K CK73FB1E104K CC73FCH1H220J	CHIP C 470PF K CHIP C 100PF J CHIP C 0.010UF K CHIP C 0.10UF K CHIP C 22PF J		
C406A C407 C408 C409 C410A-412A			CC73FCH1H180J CE04KW1A471M CE04KW1A101M CE04KW1H010M CK73FB1E103K	CHIP C 18PF J ELECTRO 470UF 10WV ELECTRO 100UF 10WV ELECTRO 1.0UF 50WV CHIP C 0.010UF K		
C413A C901 C902A,903A C904,905 C906A			CC73FSL1H101J CE04KW1E100M CK73FB1H102K CE04KW1H4R7M CE04KW1A101M	CHIP C 100PF J ELECTRO 10UF 25WV CHIP C 1000PF K ELECTRO 4.7UF 50WV ELECTRO 100UF 10WV		
C907 C908A C909 C910 C911,912			CE04KW1H4R7M CK73FB1E104K CK45FB1H224Z CE04KW1C470M CE04KW1C100M	ELECTRO 4.7UF 50WV CHIP C 0.10UF K CERAMIC 0.22UF Z ELECTRO 47UF 16WV ELECTRO 10UF 16WV		
C913,914 C915 C916 C917A C918A			CE04KW1H4R7M CE04KW1E101M CE04KW1C470M CK45FB1H223Z CK73FB1E104K	ELECTRO 4.7UF 50WV ELECTRO 100UF 25WV ELECTRO 47UF 16WV CERAMIC 0.022UF Z CHIP C 0.10UF K		
C919A TC101		*	CK45FB1H224Z C05-0242-08	CERAMIC 0.22UF Z CERAMIC TRIMMER CAPACITOR		
CN201 CN401 CN402 CN404		*	E35-2437-08 E40-8445-08 E40-8444-08 E40-8443-08 E40-8447-08	WIRE HARNESS(CN401-CN1001)16P FFC CONNECTOR (16P) PIN ASSY (16P) FFC CONNECTOR (15P) PIN ASSY (20P)		
CN405 JK101 JK301		*	E40-8446-08 E70-0112-08 E83-1091-08	PIN ASSY (17P) LOCK TERMINAL BOARD (4P) RCA JACK (2P)		
CF101,102 CF103 L101 L102 L103		*	L72-0536-05 L72-0624-08 L40-2291-17 L40-1011-17 L40-1011-17	CERAMIC FILTER CERAMIC FILTER INDUCTOR 2.2UH INDUCTOR 100UH INDUCTOR 100UH	ET	
L201 T101 T102 T103 T104		*	L40-1001-17 L31-0640-08 L32-1018-08 L30-0963-08 L30-0962-08	INDUCTOR 10UH AM ANT COIL MW OSC COIL AM IFT FM IFT		
X101 X102 X201 X401 X402		*	L77-2262-08 L77-2265-08 L77-2263-08 L77-2264-08 L78-0705-08	CRYSTAL (7.2MHZ) CRYSTAL (4.332MHZ) CRYSTAL (16.934MHZ) CRYSTAL (32.768MHZ) CERAMIC RESONATOR	ET	
R102A R104A R108A R109A			RK73FB2A104J RK73FB2A681J RK73FB2A562J RK73FB2A103J	CHIP R 100K J 1/10W CHIP R 680 J 1/10W CHIP R 5.6K J 1/10W CHIP R 10K J 1/10W		

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R110A,111A R112A R113A R114A R115A			RK73FB2A473J RK73FB2A103J RK73FB2A222J RK73FB2A473J RK73FB2A103J	CHIP R 47K J 1/10W CHIP R 10K J 1/10W CHIP R 2.2K J 1/10W CHIP R 47K J 1/10W CHIP R 10K J 1/10W	ET ET ET	
R116A R117A R118A,119A R120A R121A			RK73FB2A152J RK73FB2A470J RK73FB2A101J RK73FB2A562J RK73FB2A332J	CHIP R 1.5K J 1/10W CHIP R 47 J 1/10W CHIP R 100 J 1/10W CHIP R 5.6K J 1/10W CHIP R 3.3K J 1/10W		
R122A R123A R124A-126A R127A R128A			RK73FB2A362J RK73FB2A123J RK73FB2A103J RK73FB2A272J RK73FB2A393J	CHIP R 3.6K J 1/10W CHIP R 12K J 1/10W CHIP R 10K J 1/10W CHIP R 2.7K J 1/10W CHIP R 39K J 1/10W		
R129A R130A,131A R132A R133A R134A-137A			RK73FB2A472J RK73FB2A102J RK73FB2A562J RK73FB2A331J RK73FB2A102J	CHIP R 4.7K J 1/10W CHIP R 1.0K J 1/10W CHIP R 5.6K J 1/10W CHIP R 330 J 1/10W CHIP R 1.0K J 1/10W		
R138A R139A,140A R141A R142A R142A			RK73FB2A473J RK73FB2A102J RK73FB2A473J RK73FB2A100J RK73FB2A331J	CHIP R 47K J 1/10W CHIP R 1.0K J 1/10W CHIP R 47K J 1/10W CHIP R 10 J 1/10W CHIP R 330 J 1/10W	ET ET ET ET KPMX	
R143A R144A,145A R146,147A R149A R150A			RK73FB2A473J RK73FB2A102J RK73FB2A473J RK73FB2A332J RK73FB2A681J	CHIP R 47K J 1/10W CHIP R 1.0K J 1/10W CHIP R 47K J 1/10W CHIP R 3.3K J 1/10W CHIP R 680 J 1/10W	ET KPMX	
R151A R152A R155A R155A R156A			RK73FB2A103J RK73FB2A101J RK73FB2A000J RK73FB2A4R7J RK73FB2A000J	CHIP R 10K J 1/10W CHIP R 100 J 1/10W CHIP R 0 J 1/10W CHIP R 4.7 J 1/10W CHIP R 0 J 1/10W	ET ET ET KPMX ET	
R201A-204A R205A,206A R208A R209A R210A,211A			RK73FB2A683J RK73FB2A224J RK73FB2A100J RK73FB2A183J RK73FB2A103J	CHIP R 68K J 1/10W CHIP R 220K J 1/10W CHIP R 10 J 1/10W CHIP R 18K J 1/10W CHIP R 10K J 1/10W		
R212A R213A R214A,215A R216A,217A R218A			RK73FB2A153J RK73FB2A273J RK73FB2A103J RK73FB2A332J RK73FB2A103J	CHIP R 15K J 1/10W CHIP R 27K J 1/10W CHIP R 10K J 1/10W CHIP R 3.3K J 1/10W CHIP R 10K J 1/10W		
R219A R220A R221A R222A R223A			RK73FB2A105J RK73FB2A104J RK73FB2A103J RK73FB2A333J RK73FB2A153J	CHIP R 1.0M J 1/10W CHIP R 100K J 1/10W CHIP R 10K J 1/10W CHIP R 33K J 1/10W CHIP R 15K J 1/10W		
R224A R225A R226A,227A R228A R229A			RK73FB2A104J RK73FB2A153J RK73FB2A471J RK73FB2A102J RK73FB2A471J	CHIP R 100K J 1/10W CHIP R 15K J 1/10W CHIP R 470 J 1/10W CHIP R 1.0K J 1/10W CHIP R 470 J 1/10W		

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R230A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R231A			RK73FB2A473J	CHIP R 47K J 1/10W		
R232A-234A			RK73FB2A471J	CHIP R 470 J 1/10W		
R235A,236A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R237A			RK73FB2A153J	CHIP R 15K J 1/10W		
R238A			RK73FB2A184J	CHIP R 180K J 1/10W		
R239A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R240A			RK73FB2A912J	CHIP R 9.1K J 1/10W		
R241A-244A			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R245A			RK73FB2A912J	CHIP R 9.1K J 1/10W		
R246A,247A			RK73FB2A103J	CHIP R 10K J 1/10W		
R248A,249A			RK73FB2A474J	CHIP R 470K J 1/10W		
R250A			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R251A			RK73FB2A224J	CHIP R 220K J 1/10W		
R253A			RK73FB2A101J	CHIP R 100 J 1/10W		
R254A			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R255A			RK73FB2A471J	CHIP R 470 J 1/10W		
R256A			RK73FB2A100J	CHIP R 10 J 1/10W		
R257A			RK73FB2A331J	CHIP R 330 J 1/10W		
R258A			RK73FB2A100J	CHIP R 10 J 1/10W		
R259A			RK73FB2A471J	CHIP R 470 J 1/10W		
R260A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R301A,302A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R303A,304A			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R305A-308A			RK73FB2A752J	CHIP R 7.5K J 1/10W		
R309A,310A			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R315A,316A			RK73FB2A153J	CHIP R 15K J 1/10W		
R317A,318A			RK73FB2A104J	CHIP R 100K J 1/10W		
R319A,320A			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R321A,322A			RK73FB2A104J	CHIP R 100K J 1/10W		
R323A,324A			RK73FB2A471J	CHIP R 470 J 1/10W		
R325A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R326A,327A			RK73FB2A224J	CHIP R 220K J 1/10W		
R328A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R329A-332A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R333A,334A			RK73FB2A103J	CHIP R 10K J 1/10W		
R404A			RK73FB2A473J	CHIP R 47K J 1/10W		
R406A,407A			RK73FB2A473J	CHIP R 47K J 1/10W		
R412A-414A			RK73FB2A473J	CHIP R 47K J 1/10W		
R417A			RK73FB2A104J	CHIP R 100K J 1/10W		
R418A			RK73FB2A475J	CHIP R 4.7M J 1/10W		
R419A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R421A			RK73FB2A103J	CHIP R 10K J 1/10W		
R422A			RK73FB2A104J	CHIP R 100K J 1/10W		
R425A			RK73FB2A473J	CHIP R 47K J 1/10W		
R426A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R428A-430A			RK73FB2A473J	CHIP R 47K J 1/10W		
R431A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R432A			RK73FB2A473J	CHIP R 47K J 1/10W		
R433A			RK73FB2A103J	CHIP R 10K J 1/10W		
R434A			RK73FB2A101J	CHIP R 100 J 1/10W		
R442A			RK73FB2A103J	CHIP R 10K J 1/10W		
R901A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R902A			RK73FB2A223J	CHIP R 22K J 1/10W		
R903A			RK73FB2A562J	CHIP R 5.6K J 1/10W		

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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
R904A			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R905A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R906A			RK73FB2A223J	CHIP R 22K J 1/10W		
R907A,908A			RK73FB2A683J	CHIP R 68K J 1/10W		
R909A			RK73FB2A473J	CHIP R 47K J 1/10W		
R910A			RK73FB2A223J	CHIP R 22K J 1/10W		
R911A			RK73FB2A104J	CHIP R 100K J 1/10W		
R912A			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R913A			RK73FB2A103J	CHIP R 10K J 1/10W		
R914A			RK73FB2A223J	CHIP R 22K J 1/10W		
R916A,917A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R918A,919A			RK73FB2A103J	CHIP R 10K J 1/10W		
R920A			RK73FB2A473J	CHIP R 47K J 1/10W		
R921A			RK73FB2A223J	CHIP R 22K J 1/10W		
R922A			RK73FB2A104J	CHIP R 100K J 1/10W		
R924A			RK73FB2A103J	CHIP R 10K J 1/10W		
R925A,926A			RK73FB2A104J	CHIP R 100K J 1/10W		
R927A,928A			RK73FB2A223J	CHIP R 22K J 1/10W		
R930A			RK73FB2A470J	CHIP R 47 J 1/10W		
R931A			RK73FB2A471J	CHIP R 470 J 1/10W		
R932A			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R933			RD14BB2H221J	RD 220 J 1/2W		
R935A			RK73FB2A103J	CHIP R 10K J 1/10W		
R936A			RK73FB2A104J	CHIP R 100K J 1/10W		
R938A			RK73FB2A333J	CHIP R 33K J 1/10W		
R941A			RK73FB2A224J	CHIP R 220K J 1/10W		
R942A,943A			RK73FB2A473J	CHIP R 47K J 1/10W		
R944A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R946A,947A			RK73FB2A333J	CHIP R 33K J 1/10W		
R948A,949A			RK73FB2A103J	CHIP R 10K J 1/10W		
VR101		*	R32-0085-08	SEMI FIXED VARIABLE RESISTOR		
VR201		*	R32-0084-08	SEMI FIXED VARIABLE RESISTOR		
SW401		*	S68-0123-08	PUSH SWITCH		
SW901,902		*	S74-0082-08	DETECTOR SWITCH		
D101,102			1SS133	SWITCHING DIODE		
D103			MTZJ5.1B	ZENER DIODE		
D201,202			1SS133	SWITCHING DIODE		
D401			1SS133	SWITCHING DIODE		
D404			1SS133	SWITCHING DIODE		
D406-408			1SS133	SWITCHING DIODE		
D901-906			1SS133	SWITCHING DIODE		
D907			MTZJ4.3B	ZENER DIODE		
D908-913			1SS133	SWITCHING DIODE		
IC101			LA1837	IC(FM/AM SYSTEM IC)		
IC102			LC72131	IC(PLL FREQUENCY SYNTHESIZER)		
IC103		*	BU1923	IC		ET
IC201			CXA1571M	IC(CD RF AMP)		
IC202			CXD2587Q	IC(DAC DSP)		
IC203			BA5979S	IC(4CH BTL)		
IC301			LC75396NE	IC(ELECTRIC VOLUME)		
IC401			M30622MA-198FP	IC		
IC402		*	PST600F	IC		
Q101			2SA1317T	TRANSISTOR		
Q102			2SC1923-O	TRANSISTOR		

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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
Q103			2SA1317T	TRANSISTOR	ET	
Q201			2SA984E	TRANSISTOR		
Q202			2SC3330(S,T)	TRANSISTOR		
Q203			2SA984E	TRANSISTOR		
Q204			2SB764(E,F)	TRANSISTOR		
Q301,302			2SA1317T	TRANSISTOR		
Q303-306			2SC3330(S,T)	TRANSISTOR		
Q401			2SC3330(S,T)	TRANSISTOR		
Q901			2SC2274E	TRANSISTOR		
Q902,903			2SA984E	TRANSISTOR		
Q904			2SC2274E	TRANSISTOR		
Q905,906			2SC3330(S,T)	TRANSISTOR		
Q907			2SA984E	TRANSISTOR		
Q908,909			2SC3330(S,T)	TRANSISTOR		
Q910			2SA1317T	TRANSISTOR		
Q911			2SC3330(S,T)	TRANSISTOR		
Q912			2SA1317T	TRANSISTOR		
Q913-916			2SC3330(S,T)	TRANSISTOR		
VC101		*	SVC342M	TUNING DIODES		
JK302			W02-1114-05	OSCILLATING MODULE (OPTICAL)		
U101		*	W02-2708-08	FM FRONT END (ENV17209G)	ET	
U101		*	W02-2711-08	FM FRONT END (ENV17209G)	KPMX	
DISPLAY / KEY CONTROL UNIT						
		*	A13-3149-08	BRACKET (FL DISPLAY)		
D1031		*	B30-2558-08	LED LAMP		
D1032			B30-2500-08	LED		
D1034,1035			B30-2500-08	LED		
C801A			CK73FB1E103K	CHIP C	0.010UF	K
C802A,803A			CK73FB1E473K	CHIP C	0.047UF	K
C804A			CC73FSL1H680J	CHIP C	68PF	J
C805,806			CE04KW1H010M	ELECTRO	1.0UF	50WV
C1001A,1002A			CC73FSL1H101J	CHIP C	100PF	J
C1003			CE04KW1A470M	ELECTRO	47UF	10WV
C1004A			CK73FB1E223K	CHIP C	0.022UF	K
CN801		*	E35-2428-08	PIN ASSY (15P)		
R801A			RK73FB2A103J	CHIP R	10K	J 1/10W
R802A-808A			RK73FB2A473J	CHIP R	47K	J 1/10W
R809A			RK73FB2A103J	CHIP R	10K	J 1/10W
R810A-822A			RK73FB2A473J	CHIP R	47K	J 1/10W
R823A			RK73FB2A103J	CHIP R	10K	J 1/10W
R824A-846A			RK73FB2A473J	CHIP R	47K	J 1/10W
R847A-851A			RK73FB2A103J	CHIP R	10K	J 1/10W
R852A-859A			RK73FB2A102J	CHIP R	1.0K	J 1/10W
R860A			RK73FB2A103J	CHIP R	10K	J 1/10W
R861A-864A			RK73FB2A102J	CHIP R	1.0K	J 1/10W
R866A			RK73FB2A201J	CHIP R	200	J 1/10W
R867A			RK73FB2A271J	CHIP R	270	J 1/10W
R868A			RK73FB2A361J	CHIP R	360	J 1/10W
R869A			RK73FB2A271J	CHIP R	270	J 1/10W
R871A			RK73FB2A201J	CHIP R	200	J 1/10W
R872A			RK73FB2A271J	CHIP R	270	J 1/10W
R873A			RK73FB2A361J	CHIP R	360	J 1/10W

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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
R874A			RK73FB2A621J	CHIP R	620	J 1/10W
R875A			RK73FB2A332J	CHIP R	3.3K	J 1/10W
R877A			RK73FB2A201J	CHIP R	200	J 1/10W
R878A			RK73FB2A271J	CHIP R	270	J 1/10W
R879A			RK73FB2A361J	CHIP R	360	J 1/10W
R880A			RK73FB2A621J	CHIP R	620	J 1/10W
R881A			RK73FB2A132J	CHIP R	1.3K	J 1/10W
R882A			RK73FB2A332J	CHIP R	3.3K	J 1/10W
R883A			RK73FB2A132J	CHIP R	1.3K	J 1/10W
R1001A			RK73FB2A122J	CHIP R	1.2K	J 1/10W
R1002A			RK73FB2A201J	CHIP R	200	J 1/10W
R1003A			RK73FB2A271J	CHIP R	270	J 1/10W
R1004A			RK73FB2A361J	CHIP R	360	J 1/10W
R1005A			RK73FB2A621J	CHIP R	620	J 1/10W
R1006A			RK73FB2A132J	CHIP R	1.3K	J 1/10W
R1007A			RK73FB2A122J	CHIP R	1.2K	J 1/10W
R1008A			RK73FB2A201J	CHIP R	200	J 1/10W
R1009A			RK73FB2A271J	CHIP R	270	J 1/10W
R1010A			RK73FB2A361J	CHIP R	360	J 1/10W
R1012A			RK73FB2A122J	CHIP R	1.2K	J 1/10W
R1013A			RK73FB2A201J	CHIP R	200	J 1/10W
R1014A			RK73FB2A271J	CHIP R	270	J 1/10W
R1015A			RK73FB2A361J	CHIP R	360	J 1/10W
R1016A			RK73FB2A621J	CHIP R	620	J 1/10W
R1017A			RK73FB2A132J	CHIP R	1.3K	J 1/10W
R1018A,1019A			RK73FB2A103J	CHIP R	10K	J 1/10W
R1020A,1021A			RK73FB2A223J	CHIP R	22K	J 1/10W
R1022A			RK73FB2A331J	CHIP R	330	J 1/10W
R1023A,1024A			RK73FB2A223J	CHIP R	22K	J 1/10W
R1025A			RK73FB2A331J	CHIP R	330	J 1/10W
R1026A			RK73FB2A103J	CHIP R	10K	J 1/10W
R1027A			RK73FB2A182J	CHIP R	1.8K	J 1/10W
R1028A			RK73FB2A103J	CHIP R	10K	J 1/10W
R1029A			RK73FB2A104J	CHIP R	100K	J 1/10W
R1032A			RK73FB2A103J	CHIP R	10K	J 1/10W
R1033A			RK73FB2A104J	CHIP R	100K	J 1/10W
R1034A			RK73FB2A103J	CHIP R	10K	J 1/10W
R1035A			RK73FB2A104J	CHIP R	100K	J 1/10W
R1036A			RK73FB2A331J	CHIP R	330	J 1/10W
R1038A,1039A			RK73FB2A331J	CHIP R	330	J 1/10W
R1040A-1042A			RK73FB2A103J	CHIP R	10K	J 1/10W
V1001		*	T99-0625-08	ROTARY ENCODER		
SW1001			S70-0053-08	TACT SWITCH		
SW1003-107			S70-0053-08	TACT SWITCH		
SW801-810		*	S70-0075-08	TACT SWITCH		
FD801		*	CM1829C	INDICATOR TUBE (CM1829C)		
IC1001		*	W02-2707-08	ELECTRIC CIRCUIT MODULE		
IC801			LC75710NE	IC(VFD DISPLAY DRIVER)		
Q801-808			2SC3330(S,T)	TRANSISTOR		
Q1001,1002			2SA1317T	TRANSISTOR		
Q1003,1004			2SC3330(S,T)	TRANSISTOR		
Q1006,1007			2SC3330(S,T)	TRANSISTOR		

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CASSETTE DECK UNIT						
C701A,702A C703A,704A C705A,706A C707,708 C709,710			CK73FB1H471J CC73FSL1H470J CK73FB1E103K CE04KW1H2R2M CE04KW1H4R7M	CHIP C 470PF CHIP C 47PF CHIP C 0.010UF ELECTRO 2.2UF ELECTRO 4.7UF	J J K 50WV 50WV	
C711,712 C713,714 C715,716 C717A,718A C719A,720A			CE04KW1H010M CE04KW1H2R2M CE04KW1C100M CK73FB1H561J CK73FB1H221J	ELECTRO 1.0UF ELECTRO 2.2UF ELECTRO 10UF CHIP C 560PF CHIP C 220PF	50WV 50WV 16WV J J	
C721 C722-724 C725 C726A C727A,728A			CE04KW1H4R7M CE04KW1C101M CE04KW1C100M CK73FB1E103K CK73FB1E223K	ELECTRO 4.7UF ELECTRO 100UF ELECTRO 10UF CHIP C 0.010UF CHIP C 0.022UF	50WV 16WV 16WV K K	
C729A C730 C731 C732A,733A C734A,735A			CK73FB1E103K CE04KW1C100M CQ93HP2A682J CC73FSL1H101J CC73FSL1H470J	CHIP C 0.010UF ELECTRO 10UF MYLAR 6800PF CHIP C 100PF CHIP C 47PF	K 16WV J J J	
C736 C737 C738A,739A C741 C742A,743A			CE04KW1C101M CE04KW1C220M CK73FB1H332K CE04KW1E470M CC73FSL1H470J	ELECTRO 100UF ELECTRO 22UF CHIP C 3300PF ELECTRO 47UF CHIP C 47PF	16WV 16WV K 25WV J	
CN701 CN703		*	E40-8449-08 E40-8448-08	PIN ASSY (20P) FFC CONNECTOR (12P)		
L701,702 T701		*	L40-1035-29 L32-1019-08	CHOKE COILS (10MH) BIAS OSCILLATING COIL		
R701A,702A R703A,704A R705A,706A R707A,708A R709A,710A			RK73FB2A184J RK73FB2A103J RK73FB2A224J RK73FB2A431J RK73FB2A123J	CHIP R 180K CHIP R 10K CHIP R 220K CHIP R 430 CHIP R 12K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W	
R711A,712A R713A,714A R715A,716A R717A,718A R719A,720A			RK73FB2A183J RK73FB2A103J RK73FB2A391J RK73FB2A103J RK73FB2A183J	CHIP R 18K CHIP R 10K CHIP R 390 CHIP R 10K CHIP R 18K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W	
R721A,722A R723A,724A R725A,726A R727A,728A R731A			RK73FB2A272J RK73FB2A222J RK73FB2A103J RK73FB2A153J RK73FB2A101J	CHIP R 2.7K CHIP R 2.2K CHIP R 10K CHIP R 15K CHIP R 100	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W	
R734A R735A R736A R739A,740A R741,742			RK73FB2A102J RK73FB2A223J RK73FB2A101J RK73FB2A183J RK73FB2A3R3J	CHIP R 1.0K CHIP R 22K CHIP R 100 CHIP R 18K CHIP R 3.3	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W	
R743A R744A R745A			RK73FB2A333J RK73FB2A202J RK73FB2A102J	CHIP R 33K CHIP R 2.0K CHIP R 1.0K	J 1/10W J 1/10W J 1/10W	

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R747A R748A R749A R750A R751A			RK73FB2A472J RK73FB2A473J RK73FB2A104J RK73FB2A103J RK73FB2A333J	CHIP R 4.7K CHIP R 47K CHIP R 100K CHIP R 10K CHIP R 33K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W	
R752A R753A R754A R755A R756A-758A			RK73FB2A223J RK73FB2A473J RK73FB2A912J RK73FB2A392J RK73FB2A472J	CHIP R 22K CHIP R 47K CHIP R 9.1K CHIP R 3.9K CHIP R 4.7K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W	
R759A R760A R762A R763A-766A R767A			RK73FB2A683J RK73FB2A472J RK73FB2A103J RK73FB2A101J RK73FB2A473J	CHIP R 68K CHIP R 4.7K CHIP R 10K CHIP R 100 CHIP R 47K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W	
R768A R769A R770A R771A R772A			RK73FB2A222J RK73FB2A103J RK73FB2A104J RK73FB2A473J RK73FB2A472J	CHIP R 2.2K CHIP R 10K CHIP R 100K CHIP R 47K CHIP R 4.7K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W	
R773A R774A R775A R777A,778A R779A,780A			RK73FB2A104J RK73FB2A272J RK73FB2A473J RK73FB2A100J RK73FB2A472J	CHIP R 100K CHIP R 2.7K CHIP R 47K CHIP R 10 CHIP R 4.7K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W	
R782A R783A R784A R785A R786A			RK73FB2A103J RK73FB2A104J RK73FB2A472J RK73FB2A473J RK73FB2A103J	CHIP R 10K CHIP R 100K CHIP R 4.7K CHIP R 47K CHIP R 10K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W	
R787A,788A R789 VR701,702		*	RK73FB2A152J RK73FB2A331J R32-0086-08	CHIP R 1.5K CHIP R 330 SEMI FIXED VARIABLE RESISTOR	J 1/10W J 1/10W	
D702 D703,704 D705,706 D708 D709			1SS133 1N4004 1SS133 MTZJ5.1B MTZJ13B	DIODE (SWITCHING) DIODE DIODE (SWITCHING) ZENER DIODE ZENER DIODE		
IC701 IC702 IC703 Q701,702 Q703			BA3126N HA12219NT LA6458S 2SC3330(S,T) 2SC2274E	IC(HEAD SW) IC(EQ) IC(OP AMP X2) TRANSISTOR TRANSISTOR		
Q705 Q706,707 Q708 Q709 Q710			2SA1317T 2SC3330(S,T) 2SA984E 2SC3330(S,T) 2SB1205(S,T)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q711 Q712 Q713 Q714 Q715			2SC3330(S,T) 2SA1317T 2SC3330(S,T) 2SD2061E 2SC3330(S,T)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		

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CASSETTE MECHANISM						
301	1B		A10-3157-08	CHASSIS BASE		
305	1B		D01-0119-08	FLYWHEEL ASSY LEFT		
306	1C		D01-0205-08	FLYWHEEL ASSY RIGHT		
331	2B		D19-0310-08	CLUTCH ASSY		
369	2A		N87-2004-46	HEAD PCB SCREW		
370	2A		N87-2006-46	SCREW		
374	1C		N19-0904-08	WASHER		
375	1B, 1C		N19-0905-08	WASHER		
378	2B		N19-1214-08	WASHER		
380	2B		N29-0205-04	E RING		
389	2C		T94-0225-08	SOLENOID SHAFT		
391	1C		W02-2688-08	ELECTRIC UNIT B		
BM	1C		D16-0371-08	MAIN BELT		
BR	2C		D16-0372-08	REEL BELT		
MM	1B		T42-0933-08	MAIN MOTOR ASSY		
PF	2B		D14-0399-08	PINCH ROLLER ASSY (FWD)		
PR	1A		D14-0400-08	PINCH ROLLER ASSY (RVS)		
RPEH	2A		T39-0038-08	REC/PLAYBACK/ERASE HEAD		
CD MECHANISM						
Δ PU			T25-0061-08	PICKUP (KSS-213C)		
SPEAKER (LS-M31(S))						
-		*	A21-3784-08	FRONT PANEL		
-		*	T03-0509-08	TWEETER		
-		*	T10-1013-08	WOOFER		
-		*	T19-0209-08	SPEAKER SYSTEM (ONE PAIR)		

L : Scandinavia

K : USA

P : Canada

R : Mexico

C : China

I : Malaysia

Y : PX(Far East, Hawaii)

T : Europe

E : Europe

G : Germany

V : China (Shanghai)

Y : AAFES(Europe)

X : Australia

Q : Russia

H : Korea

M : Other Areas

Δ indicates safety critical components.

SPECIFICATIONS

Main unit

[Amplifier section]

Effective output power during STEREO operation
 1 kHz, 10 % T.H.D., at 6 Ω 15 W + 15 W
 Rated output power during STEREO operation
 Other countries
 1 kHz, 0.7 % T.H.D., at 6 Ω 12 W + 12 W
 Frequency response
 AUX 20 Hz~20 kHz (0 dB ~ -3dB)

[Tuner section]

FM tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

MW (AM) tuner section

Tuning frequency range
 9 kHz step 531 kHz ~ 1,602 kHz
 10 kHz step 530 kHz ~ 1,610 kHz

[CD player section]

Laser Semiconductor laser
 D/A Conversion 1 Bit
 Frequency response 20 Hz~20 kHz
 Wow and flutter Less than unmeasurable limit

[Cassette deck section]

Track 4-track, 2-channel stereo
 Recording system AC bias system
 (Frequency: 65 kHz)
 Heads
 Playback / recording head 1
 Erasing head 1
 Motors 1
 Wow and flutter 0.2 % (W.R.M.S.)
 Fast winding time Approx. 100 seconds
 (C-60 tape)

[General]

Power consumption 36 W
 Dimensions W : 180 mm
 H : 257 mm
 D : 275 mm
 Weight (net) 5.1 kg

Speakers

Enclosure Book shelf type, magnetically shielded
 Speaker configuration
 Woofer 100 mm, cone type
 Tweeter 50 mm, cone type
 Impedance 6 Ω
 Maximum input level 20 W
 Dimensions W : 150 mm
 H : 255 mm
 D : 240 mm
 Weight (net) 2.4 kg(1 piece)



KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

● Sufficient performance may not be exhibited at extremely cold locations (where water freezes).